

US EPA RECORDS CENTER REGION 5



469363

Screening Site Inspection  
Final Report

for

Henry Hoffman Landfill  
ILD 984 791 657  
April 1997

Prepared for  
U.S. Environmental Protection Agency  
Contract 68-W8-0064  
Work Assignment 29-5JZZ

## 1.0 Introduction

On August 7, 1991, the Alternative Remedial Contracting Strategy (ARCS) contractor was authorized, by approval of the United States Environmental Protection Agency (USEPA) Region V work plan, to conduct a screening site inspection (SSI) of the Henry Hoffman Landfill site in Whiteside County, Illinois.

The site was initially placed on the Comprehensive Environmental Response, Compensation, and Liability Act Information System (CERCLIS) on August 28, 1990. This discovery action was the result of an unpermitted landfill receiving fill of a questionable nature.

The site received its initial Comprehensive Environmental Response, Compensation, and Liability Act evaluation in the form of a preliminary assessment (PA) report completed by the Illinois Environmental Protection Agency (IEPA) on September 9, 1991. The sampling portion of the SSI was conducted on August 24, 1993, when the ARCS contractor field team collected six soil samples, four groundwater samples, and four sediment samples.

The purposes of the SSI have been stated by USEPA in a directive outlining pre-remedial program strategies. The directive states:

All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS (Hazard Ranking System) score, 2) to establish priorities among sites most likely to qualify for the NPL (National Priorities List), and 3) to identify the most critical data requirements for the listing [expanded] SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP (no further remedial action planned) or carried forward as an NPL listing candidate. A listing [expanded] SI will not automatically be done on these sites. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA (Resource Conservation and Recovery Act).... Sites that are designated as NFRAP or deferred to other statutes are not candidates for a listing [expanded] SI.

The listing [expanded] SI will address all data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and

that have not been deferred to a higher authority will receive a listing [expanded] SI (USEPA, 1988).

USEPA Region V requested the ARCS contractor to identify sites during the SSI that may require removal action to remediate an immediate human health or environmental threat.

## Contents

1.0	Introduction . . . . .	1-1
2.0	Site Background . . . . .	2-1
2.1	Introduction . . . . .	2-1
2.2	Site Description . . . . .	2-1
2.3	Site History . . . . .	2-1
2.4	Applicability of Other Statutes . . . . .	2-4
3.0	Site Inspection Activities and Analytical Results . . . . .	3-1
3.1	Introduction . . . . .	3-1
3.2	Site Reconnaissance . . . . .	3-1
3.3	Site Representative Interview . . . . .	3-1
3.4	Groundwater Sampling . . . . .	3-1
3.5	Sediment Sampling . . . . .	3-5
3.6	Soil Sampling . . . . .	3-6
3.7	Analytical Results . . . . .	3-6
3.8	Key Samples . . . . .	3-7
4.0	Characterization of Sources . . . . .	4-1
4.1	Introduction . . . . .	4-1
4.2	Waste Source: Landfill . . . . .	4-1
4.2.1	Description . . . . .	4-1
4.2.2	Waste Characteristics . . . . .	4-1
4.2.3	Potentially Affected Migration Pathways . . . . .	4-1
4.3	Other Potential Sources Within One Mile . . . . .	4-1
5.0	Discussion of Migration Pathways . . . . .	5-1
5.1	Introduction . . . . .	5-1
5.2	Groundwater . . . . .	5-1
5.3	Surface Water . . . . .	5-3
5.4	Soil . . . . .	5-5
5.5	Air . . . . .	5-5



## Contents (Continued)

6.0	References .....	6-1
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### Tables

Table 3-1	Sample Descriptions .....	3-4
Table 3-2	Key Sample Summary .....	3-7
Table 5-1	Public Water Supply Sources Within 4 Miles of HHL .....	5-2
Table 5-2	Private Well Users .....	5-4

### Figures

Figure 2-1	Site Location Map .....	2-2
Figure 2-2	Site Sketch .....	2-3
Figure 3-1	Onsite Sample Location Map .....	3-2
Figure 3-2	Offsite Sample Location Map .....	3-3

### Appendices

Appendix A	Site 4-Mile Radius Map, 15-Mile Surface Water Route Map
Appendix B	USEPA Form 2070-13
Appendix C	Target Compound List and Target Analyte List
Appendix D	Analytical Results
Appendix E	Site Photographs
Appendix F	Representative Well Logs
Appendix G	Technical Assistance Team Report

## **2.0 Site Background**

### **2.1 Introduction**

This section includes information obtained during the SSI and from reports of previous site activities.

### **2.2 Site Description**

The Henry Hoffman Landfill (HHL) is located at the end of Anixter Road, west of Rock Falls, Illinois, approximately 1/4- mile north of U.S. Route 30. Figure 2-1 is a site location map and Figure 2-2 is a site sketch.

The site topography has a slight slope to the north. The northern edge of the site is a steep slope that levels off to a flat flood plain of the Rock River.

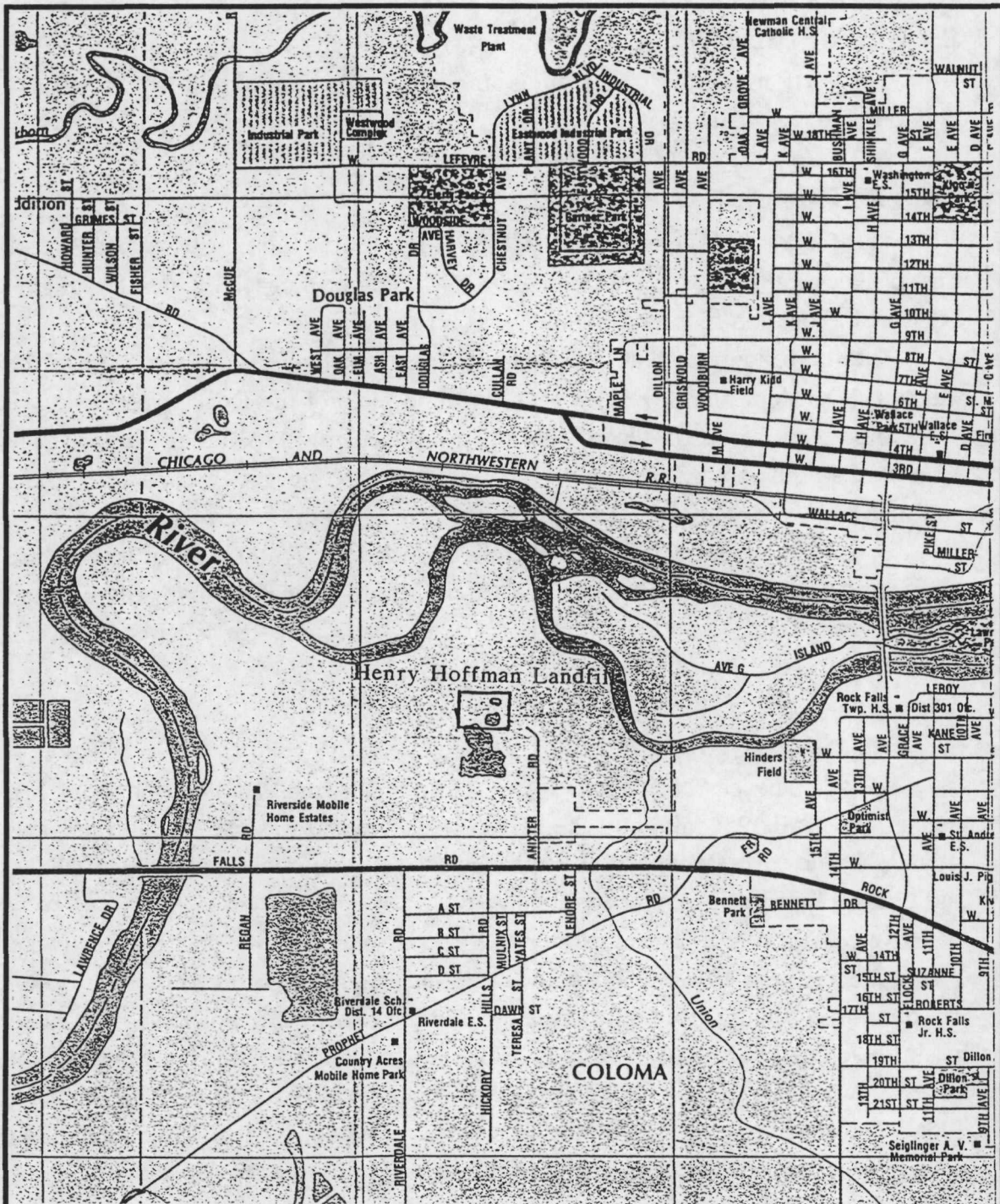
Site access is uncontrolled. Main site access is a gravel road that enters the site from the southeast. A cable gate is present across the gravel road at the site entrance; no other site security is present.

To the north and west of the site are farm fields. To the east of the site are Associated Asphalt Company (AAC), Anixter Manufacturing Company (AMC), and farm fields. To the south of the site is a 10 acre pond, Rock River Provision Company, and the Hoffman farmhouse.

### **2.3 Site History**

In 1951, the current owner, Henry Hoffman, purchased the land from Mr. Bennett. Before 1951 and until the early 1970s, the land was used for farming and grazing. In the early 1970s, Mr. Hoffman leased a section of his land to Nelson Sand and Gravel, Prescott Construction, and AAC.

Nelson Sand and Gravel excavated three large gravel pits onsite. They were 1 acre, 3 acres, and 10 acres in size. At present, the 10 acre gravel pit is a stocked fish pond with fill along the northern edge and the two smaller pits have been filled in. In the early 1980s, Nelson Sand and Gravel Company and Prescott Construction closed down, leaving only AAC operating at the site. After that, Mr. Hoffman allowed local contractors to dispose of road construction and building demolition debris in the two smaller, unlined, waterfilled gravel pits. Drums of slaughterhouse wastes from Rock River Provision Co. and Hoffman's household wastes were also disposed in the gravel pits. Mr. Hoffman mentioned unauthorized dumping had occurred.



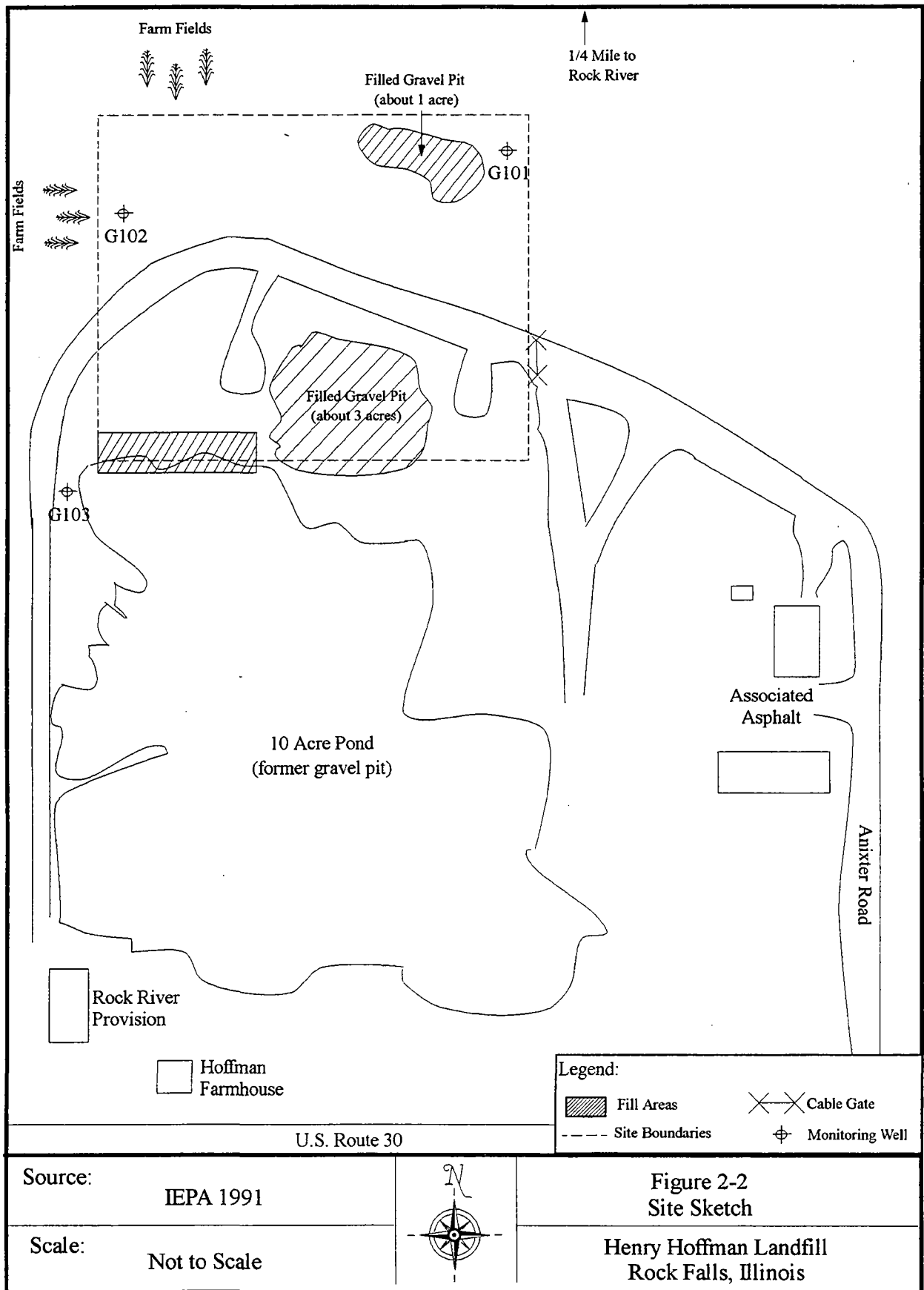
Source:  
Spectrum 1988

Scale:  
2.25 inches = 1 mile



Figure 2-1  
Site Location Map

Henry Hoffman Landfill  
Rock Falls, Illinois



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9.22.94

On October 17, 1987, the IEPA conducted an investigation of HHL and observed Illinois Administrative Code violations including refuse dumped into standing water, no personnel or equipment onsite, no gates or fencing, open burning of wastes, and no indication of daily cover (IEPA 1991).

In August 1989, Willett Hoffman and Associates, Inc., installed groundwater monitoring wells onsite (IEPA 1991). Detailed analyses were performed for 1 year after well installation, and results indicated elevated levels of metals in downgradient wells (IEPA 1991). After 1 year, the IEPA approved a less rigorous analysis for the samples, using the following analytical parameters: alkalinity, organic carbon, chloride, sulfate, and residue on evaporation. In 1990 and 1991, analyses indicate a significant decrease in alkalinity, a significant decrease in residue on evaporation, and a significant increase in sulfate content in downgradient wells.

HHL ceased accepting clean fill on October 12, 1990 (IEPA 1991). As part of closure, the site was graded for proper drainage (IEPA 1991). On October 19, 1990, the landfill received its final cover, and the seeding was finished (IEPA 1991).

IEPA conducted a PA of HHL on August 13, 1991, and determined the HHL site had the potential to impact the environment and nearby populations (IEPA 1991). A medium priority rating for inspection was assigned to the site (IEPA 1991).

## **2.4 Applicability of Other Statutes**

The HHL site is listed in the Illinois CERCLIS list (USEPA 1992a); it is not listed in the Illinois list of RCRA notifiers (USEPA 1992b).

## **3.0 Site Inspection Activities and Analytical Results**

### **3.1 Introduction**

This section outlines the procedures used and observations made during the SSI conducted at the HHL site. Sampling activities were conducted in accordance with the quality assurance project plan (QAPjP) dated September 27, 1991. Figures 3-1 and 3-2 show each sample location; Table 3-1 provides a summary of sample descriptions and locations.

Appendix B presents the USEPA Potential Hazardous Waste Site Inspection Report (Form 2070-13).

SSI samples were analyzed for organic and inorganic substances contained on the USEPA target compound list (TCL) and target analyte list (TAL) by USEPA Contract Laboratory Program participant laboratories. Appendix C presents the TCL and TAL. Appendix D presents a summary of all analytical data generated by SSI sampling. Appendix E contains photographs of the site and sample locations.

### **3.2 Site Reconnaissance**

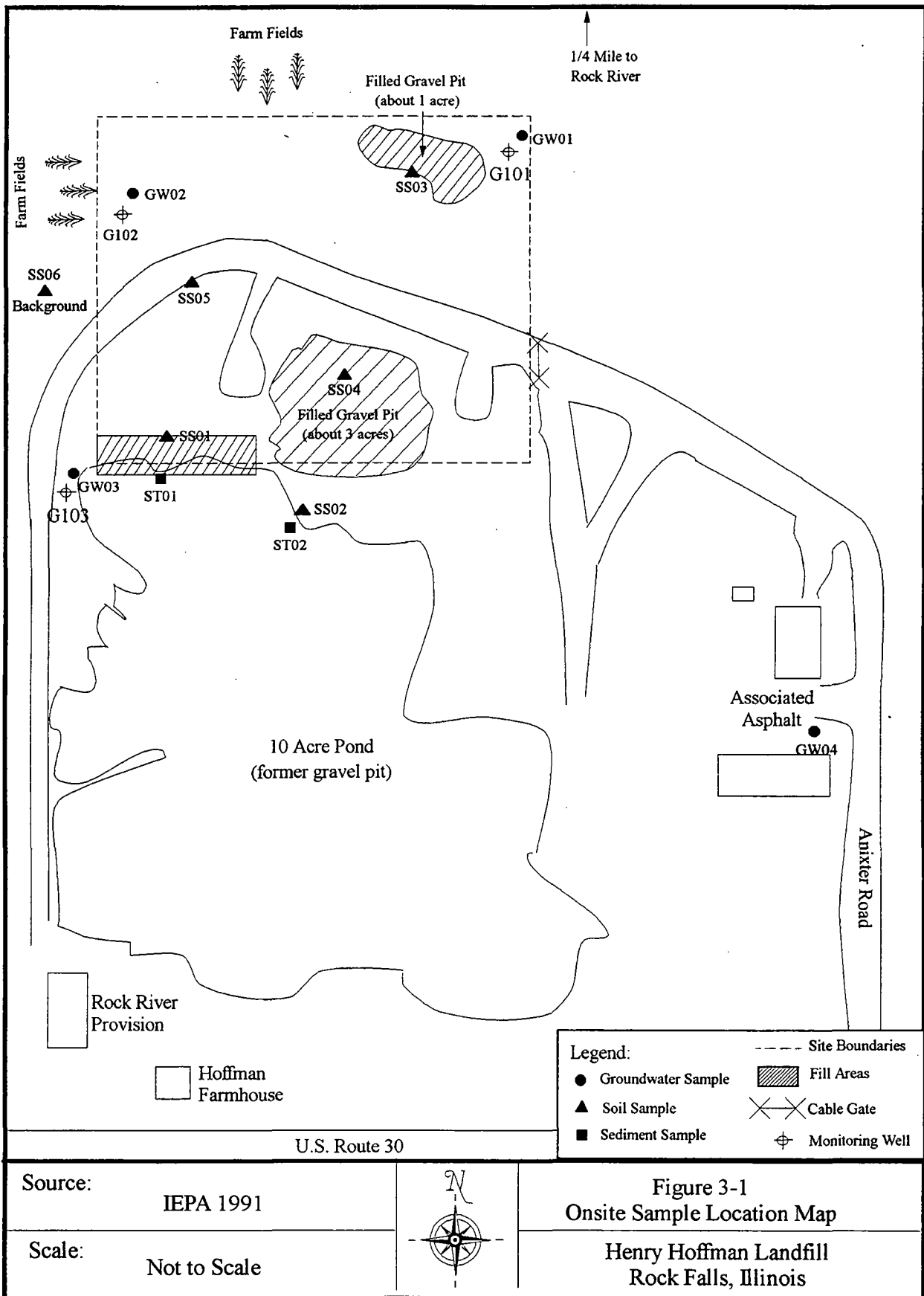
An SSI reconnaissance was conducted at the HHL site on May 25, 1993. It included a visual site inspection to determine the status and activities of the facility, health or safety hazards, and potential sampling locations.

### **3.3 Site Representative Interview**

The reconnaissance team interviewed Mr. Henry Hoffman, site owner and operator. The team discussed the purpose of the SSI with Mr. Hoffman and gathered site-specific information.

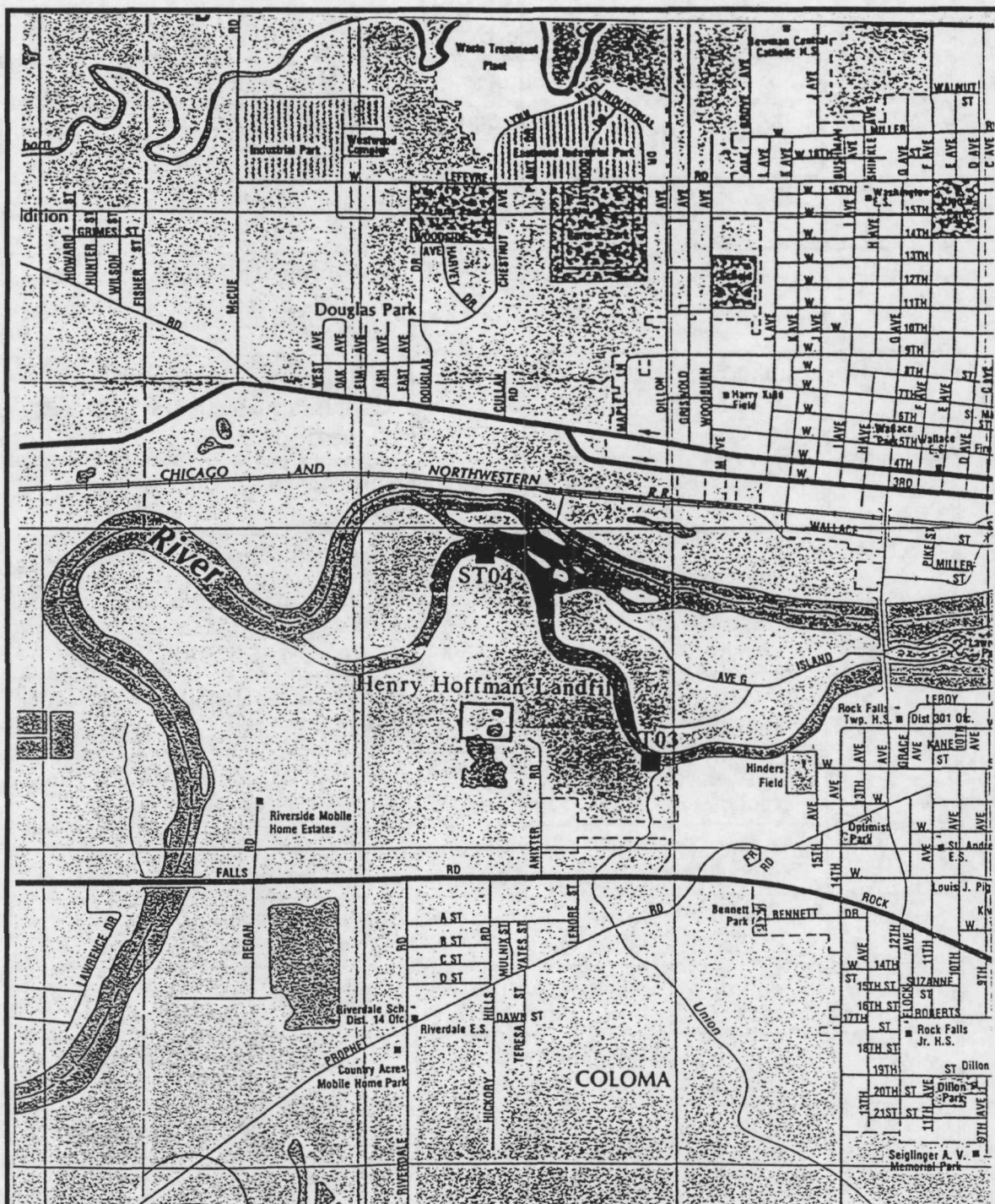
### **3.4 Groundwater Sampling**

On August 25, 1993, a field team collected four groundwater samples within 1/4 mile of the site. Three groundwater samples were collected from monitoring wells around the site. The monitoring wells are labeled G101, G102, and G103. Figure 3-1 presents approximate sample locations. Table 3-1 contains a description of each groundwater sample.



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Source:  
Spectrum 1988

Scale:  
2.25 inches = 1 mile



Figure 3-2  
Offsite Sample Location Map

Henry Hoffman Landfill  
Rock Falls, Illinois



Table 3-1 Sample Descriptions			
Sample	Depth	Appearance	Location
GW01	27.9 feet	Light brown, cloudy	Monitoring well G101, northeastern corner of the site.
GW02	24.5 feet	Clear	Monitoring well G102, northwestern corner of the site.
GW03	29.7 feet	Clear	Monitoring well G103, 100 feet south of the southwestern corner of the site.
GW04	unknown (sandpoint)	Clear	Sandpoint well for Associated Asphalt, approximately 475 feet southeast of the site.
ST01	Surface to 2 inches	Brown sand with some silt and gravel.	Northwestern corner of the onsite pond.
ST02	Surface to 2 inches	Brown sand with some silt and gravel.	North-central edge of the onsite pond.
ST03	Surface to 6 inches	Brown sand with some silt and gravel.	Approximately 1/2 mile upstream of the site on the Rock River.
ST04	Surface to 6 inches	Gray, silty clay.	Just north of the site on the Rock River.
SS01	2 to 6 inches	Brown silt with some gravel and sand.	Southwestern corner of the site.
SS02	2 to 6 inches	Brown silt with some sand and clay.	South-central edge of the site along bank of pond.
SS03	2 to 6 inches	Brown silt with some sand.	Northeastern area of the site, near 1-acre filled pit.
SS04	2 to 6 inches	Black to brown sandy silt.	Southeastern area of the site, near 3-acre filled pit.
SS05	2 to 6 inches	Brown silt with some sand and gravel.	West-central area of the site.
SS06	2 to 6 inches	Brown, silty clay with some sand and gravel.	Farm field bordering western edge of the site.

Samples were labeled GW01 through GW04. Sample GW01 was collected from monitoring well G101, which is in the northeastern corner of the site. G101 is 27.9 feet deep and screened in a sand and gravel aquifer. Sample GW02 was collected from monitoring well G102, which is a downgradient monitoring well in the northwestern site corner. The well is 24.5 feet deep and screened in a sand and gravel aquifer. Sample GW03 was collected from monitoring well G103, which is a downgradient monitoring well 100 feet south of southeastern site corner. The well is 29.7 feet deep and screened in a sand and gravel aquifer. Sample GW04 was collected offsite from the AAC well about 475 feet southeast of the site. GW04, a sandpoint well, is considered upgradient. Samples were placed in clean bottles using a submersible pump with teflon tubing. Sampling and analytical methodologies were in accordance with those outlined in the QAPjP, dated September 27, 1991. Appendix D presents analytical data.

Samples scheduled for organic analysis were shipped to Natex/Gulf South Environmental Labs in New Orleans, Louisiana, on August 27, 1993. Samples scheduled for inorganic analysis were shipped to SVL Analytical Inc. in Kellogg, Idaho, on August 30, 1993.

### **3.5 Sediment Sampling**

On August 26, 1993, a field team collected four sediment samples within 1 mile of the site. Figure 3-1 presents approximate sample locations. Table 3-1 contains a description of each sediment sample.

Samples were labeled ST01 through ST04. Sample ST01 was collected from the northwestern corner of the onsite pond to establish a possible release to surface water. Sample ST02 was collected from the north-central edge of the onsite pond to establish a possible release to surface water. Sample ST03 was collected approximately 1/2 mile upstream of the site on the Rock River, near where Union Ditch enters the Rock River. This sample location was selected to represent background sediment conditions in the Rock River. Sample ST04 was collected from the Rock River, approximately 1/4 north of the HHL site. ST04 is expected to establish a possible release to surface water.

Sediment samples were collected with a clean, stainless steel hand auger and stainless steel spoons, and placed in clean sample jars. Sampling and analytical methodologies were in accordance with those outlined in the QAPjP, dated September 27, 1991. Appendix D presents analytical data.

Sediment samples scheduled for inorganic analysis were shipped to SVL Analytical Inc. in Kellogg, Idaho, on August 30, 1993. Sediment samples scheduled for organic analysis were shipped to Natex/Gulf South Environmental Labs in New Orleans, Louisiana, on August 27, 1993.

### **3.6 Soil Sampling**

On August 24, 1993, a field team collected six soil samples onsite. Figure 3-1 presents approximate sample locations. Table 3-1 contains a description of each soil sample.

Samples were labeled SS01 through SS06. SS01 was collected from the bank of the onsite pond in the southwestern site corner to establish a soil exposure threat. Sample SS02 was collected from the south-central edge of the site along the bank of the 10 acre pond to establish a soil exposure threat. SS03 was collected from the northeastern site area near the 1 acre filled pit to establish a soil exposure threat, possibly attributable to past landfilling activities. SS04 was collected from the southeastern site area in the 3 acre filled pit area to establish a soil exposure threat, possibly attributable to past landfill activities. SS05 was collected from the west-central site area to establish a soil exposure threat, possibly attributable to past landfilling activities. SS06 was collected from the farm field bordering the western site edge to establish background conditions.

Soil samples scheduled for organic analysis were shipped on August 24, 1993, to Pacific Analytical, Carlsbad, California. Soil samples scheduled for inorganic analysis were shipped on August 24, 1993, to Americal Analytical & Technical Services, Baton Rouge, Louisiana.

### **3.7 Analytical Results**

This section summarizes analytical results from SSI samples. Appendix C presents SSI analytical data. Analysis of samples from three monitoring wells and one commercial well indicates the presence of 7 inorganic analytes that meet key sample criteria. Analysis of four sediment samples indicates the presence of 8 organic compounds and 16 inorganic analytes that meet key sample criteria. Analysis of six soil samples indicates the presence of two organic compounds and two inorganic analytes that meet key sample criteria.

### 3.8 Key Samples

Key samples are those that contain substances in sufficient concentration to document an observed release. Table 3-2 identifies SSI key samples.

Table 3-2 Key Sample Summary				
Groundwater (µg/L)				
Substance	Sample Number			
	GW01	GW02	GW03	GW04 Background
Arsenic	38.4		7.4 B	1.0 U
Barium	241		146 B	41.2 B
Cobalt	15.8 B			6.0 U
Copper	14.4 B		7.3 B	4.0 U
Iron	50,600 J			78.4 JB
Manganese	5,940			672
Selenium		2.4 JBNW		1.0 UNJ

Table 3-2 (Continued) Key Sample Summary			
Sediments (mg/kg)			
Substance	Sample Number		
	ST02	ST03 Background	ST04
Phenanthrene	0.940	0.430 U	
Fluoranthene	0.950	0.080 J	
Benzo(a)Anthracene	0.460	0.044 J	
Chrysene	0.460	0.049 J	
Benzo(b)Fluoranthene	0.410	0.041 J	
Benzo(a)Pyrene	0.400	0.049 J	
Dieldrin		0.0043 U	0.0087 P
Endrin Aldehyde		0.0043 U	0.012 P
Aluminum	7,490	1,980	16,600
Arsenic		1.4 B	6.0 S
Barium	107	15.8 B	177
Beryllium	0.45 B	0.25 U	0.88 B
Cadmium		1.00 U	2.0
Chromium	33.5	6.1	27.7
Cobalt	8.0 B	2.0 B	10.7 B
Copper	14.8	4.4 B	26.4
Iron	13,000 *	3,920 *	21,600 *
Lead	38.1 S	7.0 S	30.5 S
Manganese	855 JN*	90.7 JN*	984 JN*
Nickel		6.0 B	22.2
Potassium		259 B	1,810
Silver		1.5 U	2.7 B
Vanadium	21.7	6.7 B	35.0
Zinc		21.4	121

Table 3-2 (Continued) Key Sample Summary						
Soil (mg/kg)						
Substance	Sample Number					
	SS01	SS02	SS03	SS04	SS05	SS06 Background
Acetone	0.015	0.020		0.017		0.012 U
Toluene					0.360 D	0.120
Calcium		18,900	16,200	12,100	69,600	3,520
Magnesium		11,100	9,890		40,700	3,000

- Notes:
- U Substance is undetected. The reported value is the contract required quantitation limit (CRQL) for organics or the contract required detection limit (CRDL) for inorganics.
  - J Reported value is estimated.
  - B Reported value less than the CRDL, but greater than the instrument detection limit.
  - N Spiked sample recovery not within control limits.
  - S Reported value determined by the Method of Standard Additions.
  - W Post-digestion spike for Furnace AA analysis is out of control limits; although sample absorbance is less than 50% of spike absorbance.
  - D Reanalyzed at a higher dilution factor.
  - \* Duplicate analysis not within control limits.
  - P Greater than 25% difference for detected concentrations between the two GC columns.

## **4.0 Characterization of Sources**

### **4.1 Introduction**

Analyses of SSI samples identified one source at the HHL site: the landfill.

### **4.2 Waste Source: Landfill**

#### ***4.2.1 Description***

The HHL site is an inactive landfill that covers approximately 14 acres: 4 acres of completely filled in gravel pits and one 10-acre pond with fill along the northern shore (IEPA 1991).

The landfill does not have an engineered liner. Waste disposal operations began in the early 1980s. Clean fill and final cover material were in place by October 1990. The thickness of the final cover material and clean fill is unknown.

#### ***4.2.2 Waste Characteristics***

Local contractors disposed of road construction and building demolition debris into the two smaller, unlined, water-filled, gravel pits. Drums of slaughterhouse wastes from Rock River Provision Co. and Hoffman's household wastes also were disposed in the two smaller gravel pits.

#### ***4.2.3 Potentially Affected Migration Pathways***

The groundwater pathway may be affected by infiltrating precipitation transporting compounds from the fill material to the saturated portion of the surficial sand and gravel aquifer.

The surface water pathway may be affected by potentially contaminated groundwater discharging to the onsite pond and nearby Rock River.

### **4.3 Other Potential Sources Within One Mile**

Immediately east of the site is Associated Asphalt Company (AAC). During the site reconnaissance, numerous drums and tanks were observed strewn about on AAC's leased property along HHL's eastern border. These observations were reported to the USEPA work assignment manager. On August 24, 1993, the Ecology and Environment, Inc., Technical Assistance Team (TAT) conducted a site assessment at AAC. Based on drum and tank locations and the similarity of drum and tank contents to AAC's raw materials and product, the TAT contractor orally

notified AAC during the site assessment to abate threats posed by the deteriorating tank and drums within 10 days. Appendix G contains the site assessment report prepared by the TAT contractor.



## **5.0 Discussion of Migration Pathways**

### **5.1 Introduction**

This section includes information useful in analyzing the potential impact of contaminants found at the HHL site on the four migration pathways: groundwater, surface water, air, and soil.

### **5.2 Groundwater**

Four shallow sand and gravel wells were sampled during the SSI. One well was a production well for AAC southeast of the site; the other three were monitoring wells located on or near the HHL site. Sample analyses indicated the presence of 7 inorganic analytes that meet key sample criteria in the onsite monitoring wells.

Quaternary-age alluvium deposits underlie the site and consist of unconsolidated deposits of poorly sorted sand, silt, and clay containing local deposits of sandy gravel (Lineback 1979; IEPA 1991). Alluvial deposits vary in thickness between 10 and 130 feet (IEPA 1991). The groundwater flow direction within the sand and gravel aquifer is to the northwest, toward the Rock River (Willett Hofmann & Associates 1991).

Silurian-age dolomite lies directly beneath and interconnects with the alluvial deposits in the site area and most of Whiteside County. The Silurian dolomite varies in thickness from zero to an estimated 450 feet in Whiteside County (Foster 1956; Hackett and Bergstrom 1956; Willman 1967). The dolomite is light gray in color and generally abundant, with water-bearing cracks and joints (Foster 1956).

The Maquoketa shale lies directly below the Silurian dolomite in the site area and is generally 150 to 200 feet thick (Foster 1956; Hackett and Bergstrom 1956; Willman 1967). The shale layer is thought to act as an aquitard, preventing the downward migration of water from overlying units to deeper water-bearing units.

Lying beneath the Maquoketa shale is the Galena-Platteville dolomite; the average thickness is about 375 feet (Foster 1956; Willman 1967). Water is obtained from water-filled cracks and crevices, but water quality tends to be low because of high silt content within cracks and joints.

The city of Rock Falls has four municipal wells within 4 miles of the site. The city of Sterling has six municipal wells within 4 miles of the site (Table 5-1). In

Table 5-1  
Public Water Supply Sources Within 4 Miles of HHL

Distance/ Direction from Site	Source Name	Location of Source	Approximate Population Served	Source Type and Depth
0.75 mile west	Riverside Estates Mobile Home Park	Sec. 30, T21N, R7E	3 wells serving 270 people	Silurian dolomite 100 to 185 feet
0.75 mile south	Country Acres Mobile Home Park	Sec. 31, T21N, R7E	1 well serving 88 people	Silurian dolomite 105 feet
1.75 miles southeast	Rock Falls Municipal	Sec. 33, T21N, R7E	2 wells serving 5,317 people	Sand and Gravel 70 to 80 feet
1.75 miles southeast	Rock Falls Municipal	Sec. 33, T21N, R7E	2 wells serving 5,317 people	Silurian dolomite 135 feet
1.5 miles north	Northern Illinois Water Corp.-- Sterling	Sec. 19, T21N, R7E	2 wells serving 5,234 people	Sand and Gravel 83 to 86 feet
3.2 miles northeast	Northern Illinois Water Corp.-- Sterling	Sec. 22, T21N, R7E	4 wells serving 10,468 people	Cambrian/ Ordovician Bedrock 1,400 to 1,800 feet

addition to these municipal wells, four mobile home park wells are within 4 miles of the site. The 14 municipal wells serve 26,694 people.

Outside the town limits, residents have their own drinking water wells; a total of 320 private wells exist within 4 miles of the site. Roughly one-third of the private wells obtain their water from the alluvial sands and gravels. The other two-thirds obtain their drinking water from the Silurian dolomite. Table 5-2 presents estimated populations using private wells within 4 miles of the HHL site. Private and municipal well locations were obtained from the Illinois State Water Survey's (ISWS) Private and Public-Industrial Commercial database (ISWS 1993). Well locations were plotted on U.S. Geological Survey (USGS) 7.5 minute topographic maps (USGS 1982a, 82b, 83, 85). Populations associated with each well were determined by counting houses, on USGS 7.5 minute topographic maps, outside municipal water boundaries and multiplying that number by the average number of persons per household, 2.6, for Whiteside County [U.S. Department of Commerce (USDC) 1990; USGS 1982a, 82b, 83, 85]. Tables 5-1 and 5-2 show an estimated 27,639 people use groundwater from water wells located within 4 miles of the site, including the municipal wells.

### **5.3 Surface Water**

Four sediment samples were collected within 1 mile of the site during the SSI. Chemical analysis of the samples indicates the presence of 8 organic compounds and 16 inorganic analytes that meet key sample criteria. A potential for direct contact with affected sediments exists at the site and downgradient of the site. Site access is unrestricted. Organic and inorganic substances were detected in an onsite sediment sample (ST02). Inorganic substances were also detected in a sediment sample (ST04) taken from the Rock River, where groundwater to surface water discharge could potentially be taking place downstream of the site.

According to USGS topographic maps of the area and observations made during the SSI, site runoff flows either south into the pond along the southern border or northeast for approximately 1/2 mile to the Rock River. The 15-mile downstream limit terminates in the Rock River. The Rock River is not a drinking water source (IEPA 1983); however, the river is used for recreational purposes: fishing, boating, and parks. Within the 15-mile downstream limit on the Rock River, approximately 10 miles are considered wetlands [U.S. Department of the Interior (USDI) 1987a,

Table 5-2 Private Well Users	
Radial Distance from HHL in Miles	Approximate Population Served by Private Wells
0 - 1/4	3
1/4 - 1/2	8
1/2 - 1	26
1 - 2	117
2 - 3	173
3 - 4	618
Total Population	945

87b, 87c, 87d]. According to the National Heritage Database, there are no known occurrences of endangered and threatened species, Illinois Natural Area Inventory sites, or dedicated Illinois Nature Preserves within the termini of the 15-mile downstream limit [Illinois Department of Conservation (IDOC) 1994].

## **5.4 Soil**

Six soil samples were collected during SSI field activities. 2 organic compounds and 2 inorganic analytes that meet key sample criteria were detected in soil samples.

No onsite population exists that may be affected by exposure to TCL compounds or TAL analytes. The population within a 1 mile radius of the site is about 538 persons. It was calculated by counting houses outside municipal boundaries on USGS topographic maps and multiplying this number by the average persons per household, 2.6, for Whiteside County (USGS 1982a, 82b, 83, 85; USDC 1990). Within municipal boundaries, the percent of each city that falls into a distance ring was multiplied by the city's population and then added to that distance ring.

## **5.5 Air**

No documented air releases are known, and none were observed during the SSI.

Approximately 28,000 people live within 4 miles of the site. Populations were calculated as described in Section 5.4. Nearby wetlands and those associated with the Rock River are potential targets of any airborne particulates from the site (USDI 1987a, 87b, 87c, 87d). According to the National Heritage Database, there are no known occurrences of endangered and threatened species, Illinois Natural Area Inventory sites, or dedicated Illinois Nature Preserves within a 4 mile radius of the site (IDOC 1994).

## Appendix A

Henry Hoffman Landfill

Site 4-Mile Radius Map  
15-Mile Surface Water Route Map

## 6.0 References

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- USDI, 1987d. NWI, 7.5 minute quadrangle, Tampico, Illinois.
- U.S. Environmental Protection Agency (USEPA), 1988. Pre-Remedial Strategy for Implementing SARA, Office of Solid Waste and Emergency Response, Washington, D.C., Directive Number 9345.2-101, February 12.
- USEPA, 1992a. Illinois CERCLIS listing. July 8.
- USEPA, 1992b. Illinois list of RCRA notifiers, July 24.

U.S. Geological Survey (USGS), 1982a. 7.5 minute quadrangle, Tampico, Illinois.

USGS, 1982b. 7.5 minute quadrangle, Hahnaman, Illinois.

USGS, 1983. 7.5 minute quadrangle, Sterling, Illinois.

USGS, 1985. 7.5 minute quadrangle, Como, Illinois.

Willett Hofmann & Associates, 1991. Map for Landfill Closure.

Willman, H.B. and others, 1967. Geologic Map of Illinois, ISGS.





T 21 N  
T 20 N

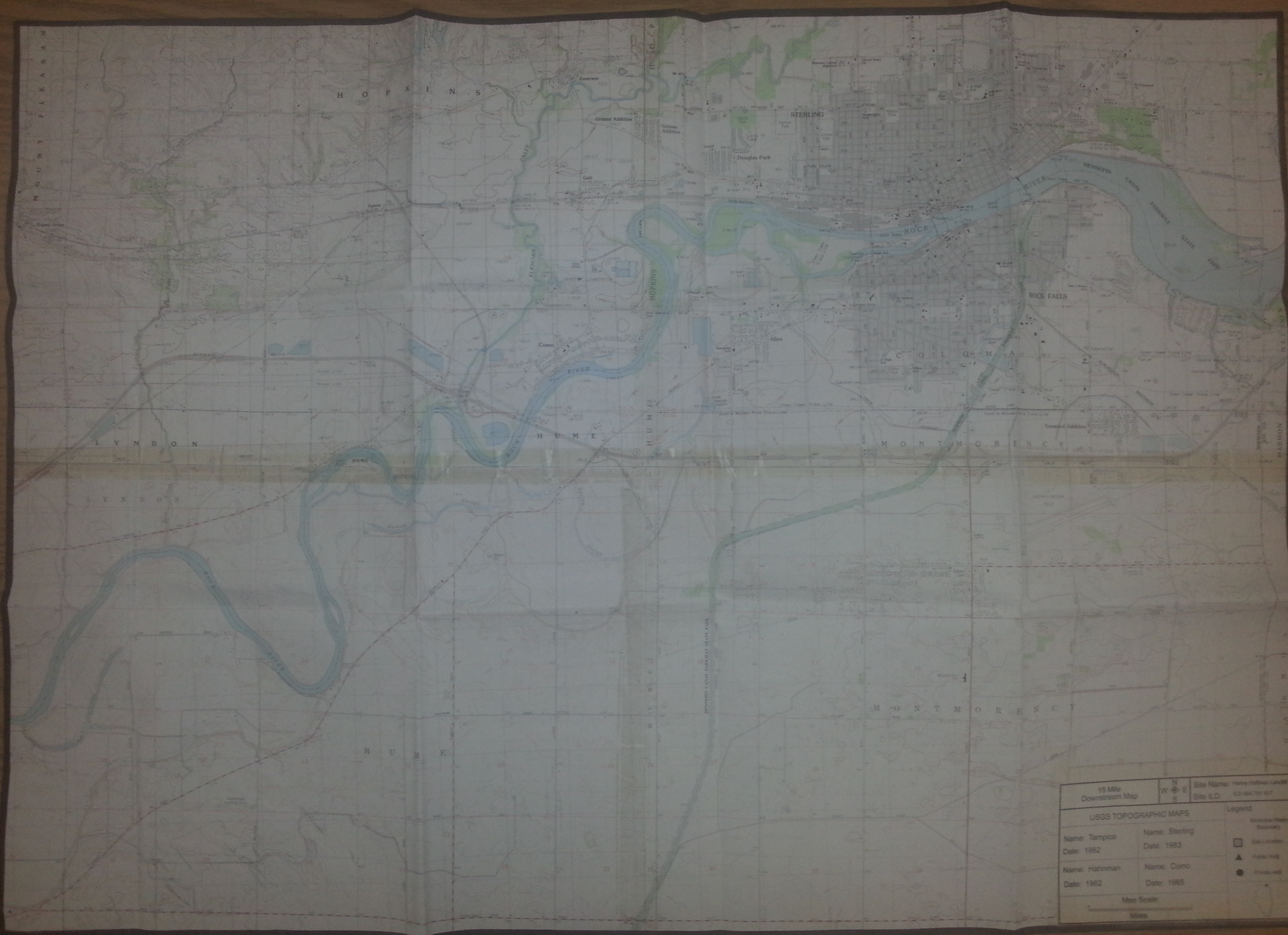
T 21 N  
T 20 N

R 6 E  
R 7 E

R 6 E  
R 7 E

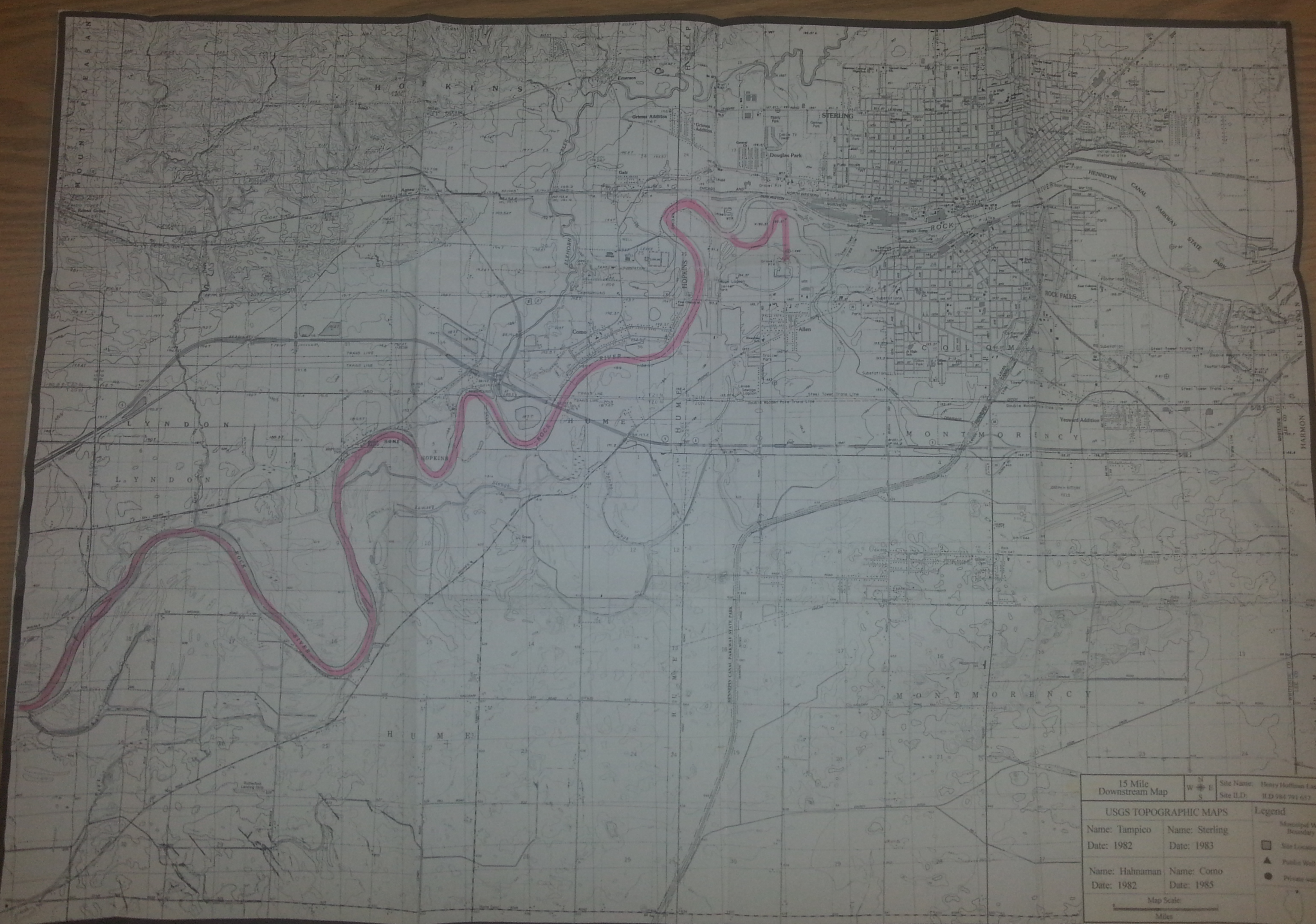
Site 4-Mile Radius Map		N W + E S	Site Name: Henry Hoffman Landfill Site ILD: ILD 964 751 657
USGS TOPOGRAPHIC MAPS			
Name: Tampico Date: 1982	Name: Sterling Date: 1983	<b>Legend</b> Municipal Water Boundary Site Location Public Well Private Well	
Name: Hahnman Date: 1982	Name: Como Date: 1985		
Map Scale: Miles			





15 Mile Downstream Map		N W E S	Site Name: Henry Hoffman Landfill Site I.D. KD 664 751 957
USGS TOPOGRAPHIC MAPS			
Name: Tampico Date: 1982	Name: Sterling Date: 1983	<b>Legend</b> Municipal Water Boundary Site Location Public Road Private Well	
Name: Hahnman Date: 1982	Name: Como Date: 1985		
Map Scale Miles			





15 Mile Downstream Map		N W E S	Site Name: Henry Hoffman Landfill Site I.D.: ILD 984 791 637
USGS TOPOGRAPHIC MAPS			
Name: Tampico Date: 1982	Name: Sterling Date: 1983	<b>Legend</b> Municipal Water Boundary Site Location Public Well Private well	
Name: Hahnaman Date: 1982	Name: Corno Date: 1985		
Map Scale: Miles			



Appendix B

Henry Hoffman Landfill

USEPA Form 2070-13



# Site Inspection Report



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE | 02 SITE NUMBER  
IL | D984791657

II. SITE NAME AND LOCATION

01 SITE NAME (Exact, common, or descriptive name of site)

Henry Hoffman Landfill

02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER

Anixter Road

03 CITY

Rock Falls

04 STATE

IL

05 ZIP CODE

61071

06 COUNTY

Whiteside

07 COUNTY CODE

195

08 CENSUS DIST

16

09 COORDINATES

09a LATITUDE

41° 46' 44"

09b LONGITUDE

89° 43' 40"

10 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE ☐ B. FEDERAL

☐ C. STATE

☐ D. COUNTY

☐ E. MUNICIPAL

☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION

8/24/93

02 SITE STATUS

☐ ACTIVE

☒ INACTIVE

03 YEARS OF OPERATION

Early 1980's

Late 1980's

UNKNOWN

BEGINNING YEAR

ENDING YEAR

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA

☒ B. EPA CONTRACTOR

Black & Veatch Waste

☐ C. MUNICIPAL

☐ D. MUNICIPAL CONTRACTOR

☐ E. STATE

☐ F. STATE CONTRACTOR

☐ G. OTHER

05 CHIEF INSPECTOR

John Noyes

06 TITLE

Hydrogeologist

07 ORGANIZATION

BVWS

08 TELEPHONE NO.

312, 346-3775

09 OTHER INSPECTORS

Jeff Albano

10 TITLE

Biologist

11 ORGANIZATION

BVWS

12 TELEPHONE NO.

312, 346-3775

Mary Lee

Geologist

BVWS

312 346-3775

13 SITE REPRESENTATIVES INTERVIEWED

Henry Hoffman

14 TITLE

Owner

15 ADDRESS

709 Hoffman Dr.

16 TELEPHONE NO.

(815) 625-0381

17 ACCESS GAINED BY

☒ PERMISSION

☐ WARRANT

18 TIME OF INSPECTION

0900

19 WEATHER CONDITIONS

clear, sunny, 70s & 80s

IV. INFORMATION AVAILABLE FROM

01 CONTACT

Henry Hoffman

02 OF (Agency/Organization)

Site Owner

03 TELEPHONE NO.

(815) 625-0381

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM

John Noyes

05 AGENCY

EPA

06 ORGANIZATION

- BVWS

07 TELEPHONE NO.

(312) 346-3775

08 DATE

4, 18 94



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D984791657

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

☒ A. SOLID  
☐ B. POWDER, FINES  
☐ C. SLUDGE  
☐ E. SLURRY  
☒ F. LIQUID  
☐ G. GAS  
☒ D. OTHER unknown  
(Specify)

02 WASTE QUANTITY AT SITE

Measures of waste quantities  
must be independent

TCNS unknown  
CUBIC YARDS unknown  
NO. OF DRUMS unknown

03 WASTE CHARACTERISTICS (Check all that apply)

☐ A. TOXIC  
☐ B. CORROSIVE  
☐ C. RADIOACTIVE  
☒ D. PERSISTENT  
☐ E. SOLUBLE  
☐ F. INFECTIOUS  
☐ G. FLAMMABLE  
☐ H. IGNITABLE  
☐ I. HIGHLY VOLATILE  
☐ J. EXPLOSIVE  
☐ K. REACTIVE  
☐ L. INCOMPATIBLE  
☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE	unknown		
SOL	SOLVENTS	unknown		
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	unknown		
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	unknown		

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
OCC	Acetone		unknown	0.020	mg/kg
OCC	Toluene		unknown	0.360	mg/kg
OCC	Phenanthrene		unknown	0.94	mg/kg
OCC	Fluoranthene		unknown	0.95	mg/kg
OCC	Benzo(a)Anthracene		unknown	0.46	mg/kg
OCC	Chrysene		unknown	0.46	mg/kg
OCC	Benzo(b)Fluoranthene		unknown	0.41	mg/kg
OCC	Benzo(a)Pyrene		unknown	0.40	mg/kg
MES	Aluminum		unknown	16,600	mg/kg
MES	Arsenic		unknown	38.4	ug/L
MES	Barium		unknown	241	ug/l
MES	Beryllium		unknown	0.88	mg/kg
MES	Cadmium		unknown	2.0	mg/kg
MES	Chromium		unknown	33.5	mg/kg
MES	Cobalt		unknown	15.8	ug/l
MES	Lead		unknown	38.15	mg/kg

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., State files, BATTEN SURVEY, 190012)

Preliminary Assessment, IEPA, 1991.  
Site Inspection Report, BVWS, 1994.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID  
☐ B. POWDER, FINES  
☐ C. SLUDGE  
☐ D. OTHER \_\_\_\_\_  
(Specify)
- ☐ E. SLURRY  
☐ F. LIQUID  
☐ G. GAS

02 WASTE QUANTITY AT SITE

Measure of waste quantities  
(Must be independent)

TCNS \_\_\_\_\_  
CUBIC YARDS \_\_\_\_\_  
NO. OF DRUMS \_\_\_\_\_

03 WASTE CHARACTERISTICS (Check all that apply)

- ☐ A. TOXIC  
☐ B. CORROSIVE  
☐ C. RADIOACTIVE  
☐ D. PERSISTENT  
☐ E. SOLUBLE  
☐ F. INFECTIOUS  
☐ G. FLAMMABLE  
☐ H. IGNITABLE  
☐ I. HIGHLY VOLATILE  
☐ J. EXPLOSIVE  
☐ K. REACTIVE  
☐ L. INCOMPATIBLE  
☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Addenda for most frequently cited CAS Numbers) Continued

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
PSD	Dieldrin		unknown	0.0087	mg/kg
PSD	Endrin Aldehyde		unknown	0.012	mg/kg
MES	Calcium		unknown	69,600	mg/kg
MES	Copper		unknown	26.4	mg/kg
MES	Iron		unknown	50,600	ug/L
MES	Magnesium		unknown	40,700	mg/kg
MES	Manganese		unknown	5,940	ug/L
MES	Nickel		unknown	22.2	mg/kg
MES	Potassium		unknown	1,810	mg/kg
MES	Silver		unknown	2.7	mg/kg
MES	Vanadium		unknown	35	mg/kg
MES	Zinc		unknown	121	mg/kg
MES	Selenium		unknown	2.4	ug/L

V. FEEDSTOCKS (See Addenda for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (CAS specific references, e.g., State (PES, BATHON ANALYSIS, REPORTS))





POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE: IL 02 SITE NUMBER: D984791657

I. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE: 8-25-93) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 27,639 04 NARRATIVE DESCRIPTION

Groundwater sampling of onsite monitoring wells indicated the presence of seven inorganic analytes.

01 ☒ B. SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE: 8-26-93) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

Samples from the onsite pond and nearby Rock River indicate the presence of eight organic compounds and sixteen analytes.

01 ☐ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE: ) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 27,639 04 NARRATIVE DESCRIPTION

No documented air releases are known, and none were observed during the SSI. However, the presence of organic compounds and inorganic analytes at or near the ground surface creates the potential for windblown particulate matter.

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE: ) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

None known or observed.

01 ☒ E. DIRECT CONTACT 02 ☒ OBSERVED (DATE: 8-24-93) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

Six soil samples collected from the site indicated the presence of two organic compounds and two inorganic analytes. This indicates a potential for direct contact with all site visitors.

01 ☒ F. CONTAMINATION OF SOIL 02 ☒ OBSERVED (DATE: 8-24-93) ☐ POTENTIAL ☐ ALLEGED  
03 AREA POTENTIALLY AFFECTED: 4 04 NARRATIVE DESCRIPTION

Six soil samples collected from the site indicated the presence of two organic compounds and two inorganic analytes.

01 ☐ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE: ) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 27,639 04 NARRATIVE DESCRIPTION

None known or observed.

01 ☐ H. WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: ) ☐ POTENTIAL ☐ ALLEGED  
03 WORKERS POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

No workers are onsite.

01 ☐ I. POPULATION EXPOSURE/INJURY 02 ☒ OBSERVED (DATE: 8-24-93) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

Six soil samples collected from the site indicated the presence of two organic compounds and two inorganic analytes. This indicates a potential for direct contact with all site visitors.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

IL D984791657

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

None known or observed.

01 ☐ K. DAMAGE TO FAUNA  
04 NARRATIVE DESCRIPTION (Include names of species)

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

None known or observed.

01 ☐ L. CONTAMINATION OF FOOD CHAIN  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

None known or observed.

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES  
(Scrubbers, Standing water, Leaking drums)  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

02 ☐ OBSERVED (DATE: 10-17-87)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

Wastes were deposited into unlined gravel pits with standing water.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

None known or observed.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPS  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

None known or observed.

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: 5-25-93)

☐ POTENTIAL

☐ ALLEGED

Henry Hoffman stated that unauthorized dumping may have occurred.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., State files, sampling analysis, reports)

Preliminary Assessment, IEPA, 1991.  
Site Inspection Report, BVWS, 1994.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION  
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D984791657

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A. NPDES				
<input type="checkbox"/> B. UIC				
<input type="checkbox"/> C. AIR				
<input type="checkbox"/> D. RCRA				
<input type="checkbox"/> E. RCRA INTERIM STATUS				
<input type="checkbox"/> F. SPCC PLAN				
<input type="checkbox"/> G. STATE (Specify)				
<input type="checkbox"/> H. LOCAL (Specify)				
<input type="checkbox"/> I. OTHER (Specify)				
<input type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCINERATION	<input type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	
<input type="checkbox"/> C. DRUMS, ABOVE GROUND			<input type="checkbox"/> C. CHEMICAL/PHYSICAL	
<input type="checkbox"/> D. TANK, ABOVE GROUND			<input type="checkbox"/> D. BIOLOGICAL	
<input type="checkbox"/> E. TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input type="checkbox"/> F. LANDFILL			<input type="checkbox"/> F. SOLVENT RECOVERY	06 AREA OF SITE
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	3
<input type="checkbox"/> H. OPEN DUMP	unknown		<input checked="" type="checkbox"/> H. OTHER none	(Specify)
<input type="checkbox"/> I. OTHER (Specify)				

07 COMMENTS

The site was added to CERCLIS in August of 1990 as a result of an unpermitted landfill receiving fill of a questionable nature. Wastes disposed of consisted of road construction and building debris, slaughterhouse wastes, and household wastes.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE    ☐ B. MODERATE    ☒ C. INADEQUATE, POOR    ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

The landfill is capped but the cover material does not appear to have a low conductivity but appears silty and sandy. Also, no liners are known to exist.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☒ NO  
02 COMMENTS

VI. SOURCES OF INFORMATION (Cite specific references, e.g., State files, Nation analysis, reports)

Preliminary Assessment, IEPA, 1991.  
Site Inspection Report, BVWS, 1994.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL 0984791657

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (CHECK ALL THAT APPLY)			02 STATUS			03 DISTANCE TO SITE	
	SURFACE	WELL	ENDANGERED	AFFECTED	MONITORED		
COMMUNITY	A. <input type="checkbox"/>	B. <input checked="" type="checkbox"/>	A. <input type="checkbox"/>	B. <input type="checkbox"/>	C. <input type="checkbox"/>	A. 0.75 (mi)	
NON-COMMUNITY	C. <input type="checkbox"/>	D. <input checked="" type="checkbox"/>	D. <input type="checkbox"/>	E. <input type="checkbox"/>	F. <input type="checkbox"/>	B. 0.25 (mi)	

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (CHECK ONE)				
<input checked="" type="checkbox"/> A. ONLY SOURCE FOR DRINKING <input type="checkbox"/> B. DRINKING (OTHER SOURCE IS SPRING) COMMERCIAL/INDUSTRIAL IRRIGATION (THIS OTHER WATER SOURCE IS SPRING) <input type="checkbox"/> C. COMMERCIAL/INDUSTRIAL IRRIGATION (LIMITED OTHER SOURCE IS SPRING) <input type="checkbox"/> D. NOT USED, UNUSEABLE				
02 POPULATION SERVED BY GROUND WATER 27,639			03 DISTANCE TO NEAREST DRINKING WATER WELL 0.25 (mi)	
04 DEPTH TO GROUNDWATER 10 (ft)	05 DIRECTION OF GROUNDWATER FLOW north/northwest	06 DEPTH TO AQUIFER OF CONCERN 10 (ft)	07 POTENTIAL YIELD OF AQUIFER (GPD)	08 SOLE SOURCE AQUIFER <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

09 DESCRIPTION OF WELLS (INCLUDING USAGE, DEPTH, AND LOCATION RELATIVE TO POPULATION AND BUILDINGS)

Approximately 320 private wells exist within four miles of the site, roughly one-third receive water from sand and gravels, the other two-thirds obtain water from the Silurian dolomite. Approximately 4 municipal wells are screened in sand and gravels, and 10 municipal wells are screened in deeper bedrock aquifers.

10 RECHARGE AREA <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		COMMENTS Generally, for shallow aquifers the recharge area is local.	11 DISCHARGE AREA <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		COMMENTS The shallow sand and gravel aquifer is thought to discharge to the onsite pond and nearby Rock River.
--	--	--	---	--	--

IV. SURFACE WATER

01 SURFACE WATER USE (CHECK ONE)			
<input checked="" type="checkbox"/> A. RESERVOIR, RECREATION DRINKING WATER SOURCE <input type="checkbox"/> B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES <input type="checkbox"/> C. COMMERCIAL/INDUSTRIAL <input type="checkbox"/> D. NOT CURRENTLY USED			
02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER			
NAME:	AFFECTED	DISTANCE TO SITE	
Onsite Pond	<input checked="" type="checkbox"/>	0 (mi)	
Rock River	<input type="checkbox"/>	0.3 (mi)	
	<input type="checkbox"/>	(mi)	

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN			02 DISTANCE TO NEAREST POPULATION
ONE (1) MILE OF SITE A. 538 NO. OF PERSONS	TWO (2) MILES OF SITE B. 11,472 NO. OF PERSONS	THREE (3) MILES OF SITE C. 22,079 NO. OF PERSONS	0.25 (mi)
03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE many		04 DISTANCE TO NEAREST OFF-SITE BUILDING 300 feet (mi)	

05 POPULATION WITHIN VICINITY OF SITE (Provide a brief description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

Approximately 27,639 people live within four miles of the site. The site is about one mile west of the towns Rock Falls and Sterling, population 10,633 and 15,700 respectively, which are surrounded by agricultural communities.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

G1 STATE G2 SITE NUMBER  
IL ID984791657

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A.  $10^{-6} - 10^{-8}$  cm/sec ☐ B.  $10^{-4} - 10^{-5}$  cm/sec ☒ C.  $10^{-3} - 10^{-2}$  cm/sec ☐ D. GREATER THAN  $10^{-2}$  cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE  
(Less than  $10^{-6}$  cm/sec)  
☐ B. RELATIVELY IMPERMEABLE  
( $10^{-6} - 10^{-5}$  cm/sec)  
☒ C. RELATIVELY PERMEABLE  
( $10^{-4} - 10^{-2}$  cm/sec)  
☐ D. VERY PERMEABLE  
(Greater than  $10^{-2}$  cm/sec)

03 DEPTH TO BEDROCK

10 to 100 (m)

04 DEPTH OF CONTAMINATED SOIL ZONE  
depth of fill is about  
10 to 20 feet (m)

05 SOIL TYPE

unknown

06 NET PRECIPITATION

0 - 5 (in)

07 ONE YEAR 24 HOUR RAINFALL

3 (in)

08 SLOPE

SITE SLOPE

DIRECTION OF SITE SLOPE

TERRAIN AVERAGE SLOPE

1 %

north

09 FLOOD POTENTIAL

SITE IS IN 500 YEAR FLOODPLAIN

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (3 acre minimum)

ESTUARINE

OTHER

A. (mi)

B. 0.25 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

(mi)

ENDANGERED SPECIES:

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL  
adjacent to site

A. 0.0 (mi)

RESIDENTIAL AREAS; NATIONAL/STATE PARKS,  
FORESTS, OR WILDLIFE RESERVES

B. 0.25 (mi)

AGRICULTURAL LANDS  
PRIME AG LAND AG LAND

adjacent to site

C. 0.0 (mi) D. (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The site occupies about four acres of flat grassy land in a rural and agricultural area. It is bordered on the north and west sides by agricultural fields. Immediately to the south is a ten acre pond, south of the pond are agricultural fields and Rock River Provision Co. Immediately to the east of the site is Associated Asphalt, east of which is Anixter Manufacturing and agricultural fields. Approximately one-quarter mile north of the site is the Rock River. The nearest school, Riverdale School, is about three-quarters of a mile south of the site.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., State Map, Survey Map, Photo)

Illinois State Geological Survey, RI194, 1956.  
Illinois State Water Survey, Private & PICS Databases, 1993.  
U.S.G.S. Topographic Maps, 1982, 83, 85.  
National Wetlands Inventory Maps, 1987.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D984791657

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	four	Natex/Gulf South Environmental Labs, New Orleans, LA SVI Analytical Inc., Kellogg, ID	4/18/94
SURFACE WATER	four sediments	same as above	4/18/94
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	six	Pacific Analytical, Carlsbad, CA American Analytical & Technical Services, Baton Rouge, LA	4/18/94
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF <u>U.S. EPA</u> <small>Name of organization or individual</small>
03 MAPS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	04 LOCATION OF MAPS _____

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

VI. SOURCES OF INFORMATION (Cite specific references, e.g., State laws, Baton Rouge, 19001)

Site Inspection Report, BVWS, 1994.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D984791657

II. CURRENT OWNER(S)

PARENT COMPANY (IF APPLICABLE)

01 NAME Henry Hoffman	02 D+B NUMBER	03 NAME	04 D+B NUMBER
05 STREET ADDRESS (P.O. Box, RFD #, etc.) 709 Hoffman Drive	06 SIC CODE	07 STREET ADDRESS (P.O. Box, RFD #, etc.)	08 SIC CODE
09 CITY Rock Falls	10 STATE 11 ZIP CODE IL 61071	12 CITY	13 STATE 14 ZIP CODE
01 NAME	02 D+B NUMBER	03 NAME	04 D+B NUMBER
05 STREET ADDRESS (P.O. Box, RFD #, etc.)	06 SIC CODE	07 STREET ADDRESS (P.O. Box, RFD #, etc.)	08 SIC CODE
09 CITY	10 STATE 11 ZIP CODE	12 CITY	13 STATE 14 ZIP CODE
01 NAME	02 D+B NUMBER	03 NAME	04 D+B NUMBER
05 STREET ADDRESS (P.O. Box, RFD #, etc.)	06 SIC CODE	07 STREET ADDRESS (P.O. Box, RFD #, etc.)	08 SIC CODE
09 CITY	10 STATE 11 ZIP CODE	12 CITY	13 STATE 14 ZIP CODE
01 NAME	02 D+B NUMBER	03 NAME	04 D+B NUMBER
05 STREET ADDRESS (P.O. Box, RFD #, etc.)	06 SIC CODE	07 STREET ADDRESS (P.O. Box, RFD #, etc.)	08 SIC CODE
09 CITY	10 STATE 11 ZIP CODE	12 CITY	13 STATE 14 ZIP CODE

III. PREVIOUS OWNER(S) (Last must precede first)

IV. REALTY OWNER(S) (If applicable; last must precede first)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., State files, station analysis, reports)

Site Inspection Report, BVWS, 1994.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

IL D984791657

II. CURRENT OPERATOR (Provide if different from owner)				OPERATOR'S PARENT COMPANY (if applicable)			
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER					
III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)				PREVIOUS OPERATORS' PARENT COMPANIES (if applicable)			
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
IV. SOURCES OF INFORMATION (List specific references, e.g., 31610 1993, bottom analysis, photo)							





POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D984791657

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	
05 CITY	06 STATE 07 ZIP CODE	

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (Check appropriate information sources, e.g., State Dept. of Health, etc.)



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL 0984791657

II. PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ S. CAPPING/COVERING  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ T. BULK TANKAGE REPAIRED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ U. GROUT CURTAIN CONSTRUCTED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ V. BOTTOM SEALED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ W. GAS CONTROL  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ X. FIRE CONTROL  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ Y. LEACHATE TREATMENT  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ Z. AREA EVACUATED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ 1. ACCESS TO SITE RESTRICTED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ 2. POPULATION RELOCATED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ 3. OTHER REMEDIAL ACTIVITIES  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

III. SOURCES OF INFORMATION (Cite specific references, e.g., State files, sample analysis, reports)



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 10 - PAST RESPONSE ACTIVITIES

1. IDENTIFICATION

01 STATE | 02 SITE NUMBER

IL | D984791657

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ D. SPILLED MATERIAL REMOVED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ E. CONTAMINATED SOIL REMOVED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ F. WASTE REPACKAGED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ G. WASTE DISPOSED ELSEWHERE  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ H. ON SITE BURIAL  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ I. IN SITU CHEMICAL TREATMENT  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ J. IN SITU BIOLOGICAL TREATMENT  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ K. IN SITU PHYSICAL TREATMENT  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ L. ENCAPSULATION  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ M. EMERGENCY WASTE TREATMENT  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ N. CUTOFF WALLS  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ O. EMERGENCY DIXING/SURFACE WATER DIVERSION  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ P. CUTOFF TRENCHES/SUMP  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ Q. SUBSURFACE CUTOFF WALL  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 10 - PAST RESPONSE ACTIVITIES

L IDENTIFICATION

01 STATE 02 SITE NUMBER

IL D984791657

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ S. CAPPING/COVERING  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ T. BULK TANKAGE REPAIRED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ U. GROUT CURTAIN CONSTRUCTED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ V. BOTTOM SEALED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ W. GAS CONTROL  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ X. FIRE CONTROL  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ Y. LEACHATE TREATMENT  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ Z. AREA EVACUATED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ 1. ACCESS TO SITE RESTRICTED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ 2. POPULATION RELOCATED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ 3. OTHER REMEDIAL ACTIVITIES  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

III. SOURCES OF INFORMATION (Cite source references, e.g., State laws, bottom analysis, reports)



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION  
01 STATE | 02 SITE NUMBER  
IL | 0984791657

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☒ YES ☐ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

On October 17, 1987, the IEPA conducted an investigation of the landfill. Some of the regulations of the Illinois Administrative Code which were observed being violated include refuse dumped into standing water, no personnel or equipment onsite, no gates or fencing, open burning of wastes, and no indications of daily cover.

In August 1989, groundwater monitoring wells were installed onsite. Detailed analyses were performed for one year after well installation and results indicated elevated levels of metals in downgradient wells. After one year, a less rigorous analyses was approved for the samples.

Shelia Murphy of the IEPA conducted a PA on Henry Hoffman Landfill on August 13, 1991. The site was determined to have the potential to impact the environment and nearby populations. A medium priority rating for inspection was assigned to the site.

Current environmental activity at the Henry Hoffman Landfill site is limited to this SSI.

III. SOURCES OF INFORMATION (Cite specific references, e.g., State Regs., Sampling Analysis, Reports)

Preliminary Assessment, IEPA, 1991.

## Appendix C

Henry Hoffman Landfill

Target Compound List and  
Target Analyte List

## Target Compound List

### Volatiles

Chloromethane	1,2-Dichloropropane
Bromomethane	Cis-1,3-Dichloropropene
Vinyl Chloride	Trichloroethene
Chloroethane	Dibromochloromethane
Methylene Chloride	1,1,2-Trichloroethane
Acetone	Benzene
Carbon Disulfide	trans-1,3-Dichloropropene
1,1-Dichloroethene	Bromoform
1,1-Dichloroethane	4-Methyl-2-pentanone
1,2-Dichloroethene (total)	2-Hexanone
Chloroform	Tetrachloroethene
1,2-Dichloroethane	Toluene
2-Butanone	1,1,2,2-Tetrachloroethane
1,1,1-Trichloroethane	Chlorobenzene
Carbon Tetrachloride	Ethylbenzene
Bromodichloromethane	Styrene
	Xylene (total)

Source: Target Compound List for water and soil with low or medium levels of volatile and semivolatile organic contaminants, as shown in the Quality Assurance Project Plan for Region V Superfund Site Assessment Program, BVWS, September 27, 1991.

## Target Compound List (Continued)

### Semivolatiles

Phenol	Acenaphthene
bis(2-Chloroethyl) ether	2,4-Dinitrophenol
2-Chlorophenol	4-Nitrophenol
1,3-Dichlorobenzene	Dibenzofuran
1,4-Dichlorobenzene	2,4-Dinitrotoluene
1,2-Dichlorobenzene	Diethylphthalate
2-Methylphenol	4-Chlorophenyl-phenylether
2,2-oxybis-(1-Chloropropane)*	Fluorene
4-Methylphenol	4-Nitroaniline
N-Nitroso-di-n-dipropylamine	4,6-Dinitro-2-methylphenol
Hexachloroethane	N-Nitrosodiphenylamine
Nitrobenzene	4-Bromophenyl-phenylether
Isophorone	Hexachlorobenzene
2-Nitrophenol	Pentachlorophenol
2,4-Dimethylphenol	Phenanthrene
bis(2-Chloroethoxy) methane	Anthracene
2,4-Dichlorophenol	Carbazole
1,2,4-Trichlorobenzene	Di-n-butylphthalate
Naphthalene	Fluoranthene
4-Chloroaniline	Pyrene
Hexachlorobutadiene	Butyl benzyl phthalate
4-Chloro-3-methylphenol	3,3'-Dichlorobenzidine
2-Methylnaphthalene	Benzo(a)anthracene
Hexachlorocyclopentadiene	Chrysene
2,4,6-Trichlorophenol	bis(2-Ethylhexyl)phthalate
2,4,5-Trichlorophenol	Di-n-Octylphthalate
2-Chloronaphthalene	Benzo(b)fluoranthene
2-Nitroaniline	Benzo(k)fluoranthene
Dimethylphthalate	Benzo(a)pyrene
Acenaphthylene	Indeno(1,2,3-cd)pyrene
2,6-Dinitrotoluene	Dibenzo(a,h)anthracene
3-Nitroaniline	Benzo(g,h,i)perylene

\*Previously known by the name of bis(2-chloroisopropyl) ether.

Source: Target Compound List for water and soil with low or medium levels of volatile and semivolatile organic contaminants, as shown in the Quality Assurance Project Plan for Region V Superfund Site Assessment Program, BVWS, September 27, 1991.



## Target Compound List (Continued)

### Pesticide/PCB

alpha-BHC	4,4'-DDT
beta-BHC	Methoxychlor
delta-BHC	Endrin ketone
gamma-BHC (Lindane)	Endrin aldehyde
Heptachlor	alpha-Chlordane
Aldrin	gamma-Chlordane
Heptachlor epoxide	Toxaphene
Endosulfan I	Aroclor-1016
Dieldrin	Aroclor-1221
4,4'-DDE	Aroclor-1232
Endrin	Aroclor-1242
Endosulfan II	Aroclor-1248
4,4'-DDD	Aroclor-1254
Endosulfan sulfate	Aroclor-1260

Source: Target Compound List for water and soil containing less than high concentrations of pesticides/aroclor, as shown in the Quality Assurance Project Plan for Region V Superfund Site Assessment Program, BVWS, September 27, 1991.

### Target Analyte List

Aluminum	Magnesium
Antimony	Manganese
Arsenic	Mercury
Barium	Nickel
Beryllium	Potassium
Cadmium	Selenium
Calcium	Silver
Chromium	Sodium
Cobalt	Thallium
Copper	Vanadium
Iron	Zinc
Lead	Cyanide

Source: Target Analyte List in the Quality Assurance Project Plan for Region V Superfund Site Assessment Program, BVWS, September 27, 1991.

**Appendix D**  
**Henry Hoffman Landfill**  
**Analytical Results**

## Contents

Data Qualifiers .....	D-2
Analytical Results .....	D-3
Groundwater Samples	
Volatile Organic Analysis for Groundwater Samples .....	D-3
Semivolatile Organic Analysis for Groundwater Samples .....	D-4
Pesticide and PCB Analysis for Groundwater Samples .....	D-6
Inorganic Analysis for Groundwater Samples .....	D-7
Sediment Samples	
Volatile Organic Analysis for Sediment Samples .....	D-8
Semivolatile Organic Analysis for Sediment Samples .....	D-9
Pesticide and PCB Analysis for Sediment Samples .....	D-11
Inorganic Analysis for Sediment Samples .....	D-12
Soil Samples	
Volatile Organic Analysis for Soil Samples .....	D-13
Semivolatile Organic Analysis for Soil Samples .....	D-14
Pesticide and PCB Analysis for Soil Samples .....	D-16
Inorganic Analysis for Soil Samples .....	D-17

Data Qualifiers		
Analysis	Qualifier	Description
Organic	U	Compound was analyzed but not detected. The associated numerical value is the sample quantitation limit.
	D	This flag identifies all compounds identified in an analysis at a secondary dilution factor. The flag alerts data users that discrepancies between concentrations reported may be due to dilution of the sample or extract.
	J	An estimated value. This flag is used either when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria with the result less than the sample quantitation limit but greater than zero.
	B	Compound found in associated blank.
	P	Greater than twenty-five percent difference for detected concentrations.
Inorganic	U	Compound was analyzed for but not detected. The associated numerical value is the sample quantitation limit.
	J	An estimated value.
	S	The reported value is less than the Contract Required Detection Limit (CRDL), but greater than or equal to the instrument detection.
	M	Duplicate injection precision not met.
	B	The reported value is less than the CRDL, but greater than or equal to the Instrument Detection Limit.
	E	The reported value is estimated due to interference.
	N	Spiked sample recovery not within control limits.
	W	Post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50 percent of spike absorbance.

Volatile Organic Analysis for Groundwater Samples Henry Hoffman Landfill				
Volatile Compound	Sample Locations and Number Concentrations in ug/L			
	GW01	GW02	GW03	GW04 Background
Chloromethane	10 UJ	10 UJ	10 UJ	10 UJ
Bromomethane	10 U	10 U	10 U	10 U
Vinyl Chloride	10 UJ	10 UJ	10 UJ	10 UJ
Chloroethane	10 U	10 U	10 U	10 U
Methylene Chloride	10 UJ	10 UJ	10 UJ	10 UJ
Acetone	7 J	10 UJ	10 UJ	10 UJ
Carbon Disulfide	10 U	10 U	10 U	10 U
1,1-Dichloroethene	10 U	10 U	10 U	10 U
1,1-Dichloroethane	10 U	10 U	10 U	10 U
1,2-Dichloroethene (total)	10 U	10 U	10 U	10 U
Chloroform	10 U	10 U	10 U	10 U
1,2-Dichloroethane	10 U	10 U	10 U	10 U
2-Butanone	10 UJ	10 UJ	10 UJ	10 UJ
1,1,1-Trichloroethane	10 U	10 U	10 U	10 U
Carbon Tetrachloride	10 U	10 U	10 U	10 U
Bromodichloromethane	10 U	10 U	10 U	10 U
1,2-Dichloropropane	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	10 U	10 U	10 U	10 U
Trichloroethene	10 U	10 U	10 U	10 U
Dibromochloromethane	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	10 U	10 U	10 U	10 U
Benzene	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene	10 U	10 U	10 U	10 U
Bromoform	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	10 U	10 U	10 U	10 U
2-Hexanone	10 UJ	10 UJ	10 UJ	10 UJ
Tetrachloroethene	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	10 U
Toluene	10 U	10 U	10 U	10 U
Chlorobenzene	10 U	10 U	10 U	10 U
Ethylbenzene	10 U	10 U	10 U	10 U
Styrene	10 U	10 U	10 U	10 U
Xylene (total)	10 U	10 U	10 U	10 U
Total Number of TICS *	0	0	0	0

\* Number, not concentrations, of tentatively identified compounds (TICs).

gw-voa

Semivolatile Organic Analysis for Groundwater Samples Henry Hoffman Landfill				
Semivolatile Compound	Sample Location and Number			
	Concentrations in ug/L			
	GW01	GW02	GW03	GW04 Background
Phenol	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)Ether	10 U	10 U	10 U	10 U
2-Chlorophenol	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10 UJ	10 UJ	10 UJ	10 UJ
1,2-Dichlorobenzene	10 U	10 U	10 U	10 U
2-Methylphenol	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane)	10 U	10 U	10 U	10 U
4-Methylphenol	10 U	10 U	10 U	10 U
n-Nitroso-Di-n-Propylamine	10 U	10 U	10 U	10 U
Hexachloroethane	10 U	10 U	10 U	10 U
Nitrobenzene	10 U	10 U	10 U	10 U
Isophorone	10 U	10 U	10 U	10 U
2-Nitrophenol	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)Methane	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10 U	10 U	10 U	10 U
Naphthalene	10 U	10 U	10 U	10 U
4-Chloroaniline	10 U	10 U	10 U	10 U
Hexachlorobutadiene	10 U	10 U	10 U	10 U
4-Chloro-3-Methylphenol	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	25 U	25 U	25 U	25 U
2-Chloronaphthalene	10 U	10 U	10 U	10 U
2-Nitroaniline	25 U	25 U	25 U	25 U
Dimethyl Phthalate	10 U	10 U	10 U	10 U
Acenaphthylene	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	10 U	10 U	10 U	10 U
3-Nitroaniline	25 U	25 U	25 U	25 U
Acenaphthene	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	25 U	25 U	25 U	25 U
4-Nitrophenol	25 U	25 U	25 U	25 U
Dibenzofuran	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	10 U	10 U	10 U	10 U
Diethylphthalate	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether	10 U	10 U	10 U	10 U
Fluorene	10 U	10 U	10 U	10 U
4-Nitroaniline	25 U	25 U	25 U	25 U
4,6-Dinitro-2-Methylphenol	25 U	25 U	25 U	25 U

Semivolatile Organic Analysis for Groundwater Samples Henry Hoffman Landfill				
Semivolatile Compound	Sample Location and Number Concentrations in ug/L			
	GW01	GW02	GW03	GW04 Background
n-Nitrosodiphenylamine	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	10 U	10 U	10 U	10 U
Hexachlorobenzene	10 U	10 U	10 U	10 U
Pentachlorophenol	25 U	25 U	25 U	25 U
Phenanthrene	10 U	10 U	10 U	10 U
Anthracene	10 U	10 U	10 U	10 U
Carbazole	10 U	10 U	10 U	10 U
di-n-Butylphthalate	10 U	10 U	10 U	10 U
Fluoranthene	10 U	10 U	10 U	10 U
Pyrene	10 U	10 U	10 U	10 U
Butylbenzylphthalate	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	10 U	10 U	10 U	10 U
Benzo(a)Anthracene	10 U	10 U	10 U	10 U
Chrysene	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)Phthalate	10 UJB	10 UJB	10 UJB	10 U
di-n-Octyl Phthalate	10 U	10 U	10 U	10 U
Benzo(b)Fluoranthene	10 U	10 U	10 U	10 U
Benzo(k)Fluoranthene	10 U	10 U	10 U	10 U
Benzo(a)Pyrene	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)Pyrene	10 U	10 U	10 U	10 U
Dibenzo(a,h)Anthracene	10 U	10 U	10 U	10 U
Benzo(g,h,i)Perylene	10 U	10 U	10 U	10 U
Total Number of TICs *	0	0	0	0

\* Number, not concentration, of tentatively identified compounds (TICs).

Pesticide and PCB Analysis for Groundwater Samples Henry Hoffman Landfill				
Pesticide/ PCB	Sample Locations and Number Concentrations in ug/L			
	GW01	GW02	GW03	GW04 Background
Alpha-BHC	0.050 UJ	0.050 UJ	0.050 U	0.050 UJ
Beta-BHC	0.050 UJ	0.050 UJ	0.050 U	0.050 UJ
Delta-BHC	0.050 UJ	0.050 UJ	0.050 U	0.050 UJ
Gamma-BHC (Lindane)	0.050 UJ	0.050 UJ	0.050 U	0.050 UJ
Heptachlor	0.050 UJ	0.050 UJ	0.050 U	0.050 UJ
Aldrin	0.050 UJ	0.050 UJ	0.050 U	0.050 UJ
Heptachlor Epoxide	0.050 UJ	0.050 UJ	0.050 U	0.050 UJ
Endosulfan I	0.050 UJ	0.050 UJ	0.050 U	0.050 UJ
Dieldrin	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ
4,4'-DDE	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ
Endrin	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ
Endosulfan II	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ
4,4'-DDD	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ
Endosulfan Sulfate	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ
4,4'-DDT	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ
Methoxychlor	0.50 UJ	0.50 UJ	0.50 U	0.50 UJ
Endrin Ketone	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ
Endrin Aldehyde	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ
Alpha-Chlordane	0.050 UJ	0.050 UJ	0.050 U	0.050 UJ
Gamma-Chlordane	0.050 UJ	0.050 UJ	0.050 U	0.050 UJ
Toxaphene	5.0 UJ	5.0 UJ	5.0 U	5.0 UJ
Aroclor-1016	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ
Aroclor-1221	2.0 UJ	2.0 UJ	2.0 U	2.0 UJ
Aroclor-1232	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ
Aroclor-1242	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ
Aroclor-1248	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ
Aroclor-1254	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ
Aroclor-1260	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ

gwpest



Inorganic Analysis for Groundwater Samples Henry Hoffman Landfill				
Metals and Cyanide	Sample Locations and Number Concentrations in ug/L			
	GW01	GW02	GW03	GW04 Background
Aluminum	31.0 U	31.0 U	31.0 U	31.0 U
Antimony	38.0 U	38.0 U	38.0 U	38.0 U
Arsenic	38.4	1.0 U	7.4 B	1.0 U
Barium	241	68.2 B	146 B	41.2 B
Beryllium	1.0 U	1.0 U	1.0 U	1.0 U
Cadmium	4.0 U	4.0 U	4.0 U	4.0 U
Calcium	237000 J	64100 J	34500 J	53400 J
Chromium	4.0 U	4.0 U	4.0 U	4.0 U
Cobalt	15.8 B	6.0 U	6.0 U	6.0 U
Copper	14.4 B	4.0 U	7.3 B	4.0 U
Iron	50600 J	66.6 UB	459 J	78.4 JB
Lead	5.1 UJW	2.1 UJBW	6.0 UJW	3.1 UJW
Magnesium	61700 J	29000 J	16800 J	22300 J
Manganese	5940	132	370	672
Mercury	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	15.0 U	15.0 U	15.0 U	15.0 U
Potassium	1800 B	2040 B	2210 B	2080 B
Selenium	1.0 JBNW	2.4 JBNW	1.0 UJN	1.0 UJN
Silver	6.0 U	6.0 U	6.0 U	6.0 U
Sodium	34900 J	11600 J	14100 J	16700 J
Thallium	1.0 U	1.2 JB	1.0 U	1.0 U
Vanadium	4.0 U	4.0 U	4.0 U	4.0 U
Zinc	21.3 U	6.0 U	22.3 U	77.6 J
Cyanide	10.0 U	10.0 U	10.0 U	10.0 U

gwm Metals

Volatile Organic Analysis for Sediment Samples Henry Hoffman Landfill				
Volatile Compound	Sample Location and Number Concentrations in ug/kg			
	ST01	ST02	ST03 Background	ST04
Chloromethane	12 U	11 U	13 U	17 U
Bromomethane	12 U	11 U	13 U	17 U
Vinyl Chloride	12 U	11 U	13 U	17 U
Chloroethane	12 U	11 U	13 U	17 U
Methylene Chloride	12 UJB	16 UB	19 UB	17 UJB
Acetone	12 U	6 J	4 J	17 U
Carbon Disulfide	12 U	11 U	13 U	17 U
1,1-Dichloroethene	12 U	11 U	13 U	17 U
1,1-Dichloroethane	12 U	11 U	13 U	17 U
1,2-Dichloroethene (total)	12 U	11 U	13 U	17 U
Chloroform	12 U	11 U	13 U	17 U
1,2-Dichloroethane	12 U	11 U	13 U	17 U
2-Butanone	12 UJ	11 UJ	13 UJ	17 UJ
1,1,1-Trichloroethane	12 U	11 U	13 U	17 U
Carbon Tetrachloride	12 U	11 U	13 U	17 U
Bromodichloromethane	12 U	11 U	13 U	17 U
1,2-Dichloropropane	12 U	11 U	13 U	17 U
cis-1,3-Dichloropropene	12 U	11 U	13 U	17 U
Trichloroethene	12 U	11 U	13 U	17 U
Dibromochloromethane	12 U	11 U	13 U	17 U
1,1,2-Trichloroethane	12 U	11 U	13 U	17 U
Benzene	12 U	11 U	13 U	17 U
trans-1,3-Dichloropropene	12 U	11 U	13 U	17 U
Bromoform	12 U	11 U	13 U	17 U
4-Methyl-2-Pentanone	12 U	11 U	13 U	17 U
2-Hexanone	12 U	11 U	13 U	17 U
Tetrachloroethene	12 U	11 U	13 U	17 U
1,1,2,2-Tetrachloroethane	12 U	11 U	13 U	17 U
Toluene	12 U	3 J	13 U	17 U
Chlorobenzene	12 U	11 U	13 U	17 U
Ethylbenzene	12 U	11 U	13 U	17 U
Styrene	12 U	11 U	13 U	17 U
Xylene (total)	12 U	11 U	13 U	17 U
Total Number of TICS *	0	0	0	0

\* Number, not concentrations, of tentatively identified compounds (TICs).

SED-VOL

Semivolatile Organic Analysis for Sediment Samples  
Henry Hoffman Landfill

Semivolatile Compound	Sample Location and Number Concentrations in ug/kg			
	ST01	ST02	ST03 Background	ST04
Phenol	380 U	380 U	430 U	550 U
bis(2-Chloroethyl)Ether	380 U	380 U	430 U	550 U
2-Chlorophenol	380 U	380 U	430 U	550 U
1,3-Dichlorobenzene	380 U	380 U	430 U	550 U
1,4-Dichlorobenzene	380 U	380 U	430 U	550 U
1,2-Dichlorobenzene	380 U	380 U	430 U	550 U
2-Methylphenol	380 U	380 U	430 U	550 U
2,2'-oxybis(1-Chloropropane)	380 U	380 U	430 U	550 U
4-Methylphenol	380 U	380 U	430 U	550 U
n-Nitroso-Di-n-Propylamine	380 U	380 U	430 U	550 U
Hexachloroethane	380 U	380 U	430 U	550 U
Nitrobenzene	380 U	380 U	430 U	550 U
Isophorone	380 U	380 U	430 U	550 U
2-Nitrophenol	380 U	380 U	430 U	550 U
2,4-Dimethylphenol	380 U	380 U	430 U	550 U
bis(2-Chloroethoxy)Methane	380 U	380 U	430 U	550 U
2,4-Dichlorophenol	380 U	380 U	430 U	550 U
1,2,4-Trichlorobenzene	380 U	380 U	430 U	550 U
Naphthalene	380 U	380 U	430 U	550 U
4-Chloroaniline	380 UJ	380 UJ	430 UJ	550 UJ
Hexachlorobutadiene	380 U	380 U	430 U	550 U
4-Chloro-3-Methylphenol	380 U	380 U	430 U	550 U
2-Methylnaphthalene	380 U	380 U	430 U	550 U
Hexachlorocyclopentadiene	380 U	380 U	430 U	550 U
2,4,6-Trichlorophenol	380 U	380 U	430 U	550 U
2,4,5-Trichlorophenol	920 U	910 U	1000 U	1300 U
2-Chloronaphthalene	380 U	380 U	430 U	550 U
2-Nitroaniline	920 U	910 U	1000 U	1300 U
Dimethyl Phthalate	380 U	380 U	430 U	550 U
Acenaphthylene	380 U	380 U	430 U	550 U
2,6-Dinitrotoluene	380 U	380 U	430 U	550 U
3-Nitroaniline	920 UJ	910 UJ	1000 UJ	1300 UJ
Acenaphthene	380 U	61 UJ	430 U	550 U
2,4-Dinitrophenol	920 U	910 U	1000 U	1300 U
4-Nitrophenol	920 U	910 U	1000 U	1300 U
Dibenzofuran	380 U	380 U	430 U	550 U
2,4-Dinitrotoluene	380 U	380 U	430 U	550 U
Diethylphthalate	380 U	380 U	430 U	550 U
4-Chlorophenyl-phenylether	380 U	380 U	430 U	550 U
Fluorene	380 U	93 J	430 U	550 U

Semivolatile Organic Analysis for Sediment Samples  
Henry Hoffman Landfill

Semivolatile Compound	Sample Location and Number Concentrations in ug/kg			
	ST01	ST02	ST03 Background	ST04
4-Nitroaniline	920 U	910 U	1000 U	1300 U
4,6-Dinitro-2-Methylphenol	920 U	910 U	1000 U	1300 U
n-Nitrosodiphenylamine (1)	380 UJ	380 UJ	430 UJ	550 UJ
4-Bromophenyl-phenylether	380 U	380 U	430 U	550 U
Hexachlorobenzene	380 U	380 U	430 U	550 U
Pentachlorophenol	920 U	910 U	1000 U	1300 U
Phenanthrene	380 U	940	430 U	76 J
Anthracene	380 U	220 J	430 U	550 U
Carbazole	380 UJ	470 J	430 UJ	550 UJ
di-n-Butylphthalate	380 U	380 U	430 U	550 U
Fluoranthene	380 U	950	80 J	130 J
Pyrene	380 U	100	88 J	210 J
Butylbenzylphthalate	380 U	380 U	430 U	57 J
3,3'-Dichlorobenzidine	380 U	380 U	430 U	550 U
Benzo(a)Anthracene	380 U	460	44 J	100 J
Chrysene	380 U	460	49 J	120 J
bis(2-Ethylhexyl)Phthalate	380 UJB	380 UJB	430 UJB	550 UJB
di-n-Octyl Phthalate	380 UJ	380 UJ	430 UJ	550 UJ
Benzo(b)Fluoranthene	380 U	410	41 J	130 J
Benzo(k)Fluoranthene	380 U	340 J	31 J	77 J
Benzo(a)Pyrene	380 U	400	49 J	120 J
Indeno(1,2,3-cd)Pyrene	380 U	380	430 U	110 J
Dibenzo(a,h)Anthracene	380 U	97 J	430 U	550 U
Benzo(g,h,i)Perylene	380 U	270 J	38 J	550 U
Total Number of TICs	5	23	12	23

sedim-sv

Pesticide and PCB Analysis for Sediment Samples Henry Hoffman Landfill				
Pesticide/ PCB	Sample Location and Number Concentrations in ug/kg			
	ST01	ST02	ST03 Background	ST04
Alpha-BHC	2.0 U	19 U	2.2 U	2.8 U
Beta-BHC	2.0 U	19 U	2.2 U	2.8 U
Delta-BHC	2.0 U	19 U	2.2 U	2.8 U
Gamma-BHC (Lind.)	2.0 U	19 U	2.2 U	2.8 U
Heptachlor	2.0 U	19 U	2.2 U	2.8 U
Aldrin	2.0 U	19 U	2.2 U	2.8 U
Heptachlor Epoxide	2.0 U	19 U	2.2 U	2.8 U
Endosulfan I	2.0 U	19 U	2.2 U	2.8 U
Dieldrin	3.8 U	37 U	4.3 U	8.7 P
4,4'-DDE	3.8 U	37 U	4.3 U	5.5 U
Endrin	3.8 U	37 U	4.3 U	5.5 U
Endosulfan II	3.8 U	37 U	4.3 U	5.5 U
4,4'-DDD	3.8 U	37 U	4.3 U	5.5 U
Endosulfan Sulfate	3.8 U	37 U	4.3 U	5.5 U
4,4'-DDT	3.8 U	37 U	4.3 U	5.5 U
Methoxychlor	20 U	190 U	22 U	28 U
Endrin Ketone	3.8 U	37 U	4.3 U	5.5 U
Endrin Aldehyde	3.8 U	37 U	4.3 U	12 P
Alpha-Chlordane	2.0 U	19 U	2.2 U	2.8 U
Gamma-Chlordane	2.0 U	19 U	2.2 U	2.8 U
Toxaphene	200 U	1900 U	220 U	280 U
Aroclor-1016	38 U	370 U	43 U	55 U
Aroclor-1221	77 U	760 U	87 U	110 U
Aroclor-1232	38 U	370 U	43 U	55 U
Aroclor-1242	38 U	370 U	43 U	55 U
Aroclor-1248	38 U	370 U	43 U	55 U
Aroclor-1254	38 U	370 U	43 U	55 U
Aroclor-1260	38 U	370 U	43 U	55 U

PESTSSED

Inorganic Analysis for Sediment Samples Henry Hoffman Landfill				
Metals and Cyanide	Sample Location and Number			
	Concentrations in mg/kg			
	ST01	ST02	ST03 Background	ST04
Aluminum	1390	7490	1980	16600
Antimony	8.6 U	9.1 U	9.5 U	13.1 U
Arsenic	1.3 JBW	3.5 S	1.4 B	6.0 S
Barium	19.5 B	107	15.8 B	177
Beryllium	0.23 U	0.45 B	0.25 U	0.88 B
Cadmium	0.91 U	0.96 U	1.00 U	2.0
Calcium	36100	18100	23600	37800
Chromium	4.5	33.5	6.1	27.7
Cobalt	2.9 B	8.0 B	2.0 B	10.7 B
Copper	4.5 B	14.8	4.4 B	26.4
Iron	3760 *	13000 *	3920 *	21600 *
Lead	2.9	38.1 S	7.0 S	30.5 S
Magnesium	17300	9740	13700	8390
Manganese	274 JN*	855 JN*	90.7 JN*	984 JN*
Mercury	0.11 U	0.12 U	0.12 U	0.17 U
Nickel	4.2 B	10.2	6.0 B	22.2
Potassium	270 B	695 B	259 B	1810
Selenium	0.23 U	0.59 JB	0.25 U	0.97 JB
Silver	1.4 U	1.4 U	1.5 U	2.7 B
Sodium	73.6 B	59.2 JB	55.3 B	118 B
Thallium	0.25 B	0.27 JB	0.38 JB	0.53 JB
Vanadium	7.2 B	21.7	6.7 B	35.0
Zinc	11.2	44.5	21.4	121
Cyanide	0.57 U	0.60 U	0.62 U	0.86 U

sedmetal

Volatile Organic Analysis for Surface Soil Samples  
Henry Hoffman Landfill SSI

Volatile Compound	Sample Location and Number Concentrations in ug/kg					
	SS01	SS02	SS03	SS04	SS05	SS06 Background
Chloromethane	11 U	11 U	11 U	11 U	11 U	12 U
Bromomethane	11 U	11 U	11 U	11 U	11 U	12 U
Vinyl Chloride	11 U	11 U	11 U	11 U	11 U	12 U
Chloroethane	11 UJ	11 U	11 U	11 U	11 UJ	12 UJ
Methylene Chloride	46	30	35	14	17	11 J
Acetone	15	20	10 J	17	11 U	12 U
Carbon Disulfide	11 U	11 U	11 U	11 U	11 U	12 U
1,1-Dichloroethene	11 U	11 U	11 U	11 U	11 U	12 U
1,1-Dichloroethane	11 U	11 U	11 U	11 U	11 U	12 U
1,2-Dichloroethene (total)	11 U	11 U	11 U	11 U	11 U	12 U
Chloroform	11 U	11 U	11 U	11 U	11 U	12 U
1,2-Dichloroethane	11 U	11 U	11 U	11 U	11 U	12 U
2-Butanone	11 U	11 U	11 U	11 U	11 U	12 U
1,1,1-Trichloroethane	11 U	11 U	11 U	11 U	11 U	12 U
Carbon Tetrachloride	11 U	11 U	11 U	11 U	11 U	12 U
Bromodichloromethane	11 U	11 U	11 U	11 U	11 U	12 U
1,2-Dichloropropane	11 U	11 U	11 U	11 U	11 U	12 U
cis-1,3-Dichloropropene	11 U	11 U	11 U	11 U	11 U	12 U
Trichloroethene	11 U	11 U	11 U	11 U	11 U	12 U
Dibromochloromethane	11 U	11 U	11 U	11 U	11 U	12 U
1,1,2-Trichloroethane	11 U	11 U	11 U	11 U	11 U	12 U
Benzene	11 U	11 U	11 U	11 U	11 U	12 U
trans-1,3-Dichloropropene	11 U	11 U	11 U	11 U	11 U	12 U
Bromoform	11 U	11 U	11 U	11 U	11 U	12 U
4-Methyl-2-Pentanone	11 U	11 U	11 U	11 U	11 U	12 U
2-Hexanone	11 U	11 U	11 U	11 U	11 U	12 U
Tetrachloroethene	11 U	11 U	11 U	11 U	11 U	12 U
1,1,2,2-Tetrachloroethane	11 U	11 U	11 U	11 U	11 U	12 U
Toluene	24	180	83	82	360 D	120
Chlorobenzene	11 U	11 U	11 U	11 U	11 U	12 U
Ethylbenzene	11 U	11 U	11 U	11 U	11 U	12 U
Styrene	11 U	11 U	11 U	11 U	11 U	12 U
Xylene (total)	11 U	11 U	11 U	11 U	11 U	12 U
Total Number of TICs *	0	0	0	0	0	0

\* - Number, not concentrations, of tentatively identified compounds (TICs) found in each sample.

soilvoa

Semivolatile Organic Analysis for Surface Soil Samples  
Henry Hoffman Landfill

Semivolatile Compound	Sample Location and Number					
	Concentrations in ug/kg					
	SS01	SS02	SS03	SS04	SS05	SS06 Background
Phenol	370 U	370 U	370 U	360 U	350 U	380 U
bis(2-Chloroethyl)Ether	370 U	370 U	370 U	360 U	350 U	380 U
2-Chlorophenol	370 U	370 U	370 U	360 U	350 U	380 U
1,3-Dichlorobenzene	370 U	370 U	370 U	360 U	350 U	380 U
1,4-Dichlorobenzene	370 U	370 U	370 U	360 U	350 U	380 U
1,2-Dichlorobenzene	370 U	370 U	370 U	360 U	350 U	380 U
2-Methylphenol	370 U	370 U	370 U	360 U	350 U	380 U
2,2'-Oxybis(1-Chloropropane)	370 UJ	370 UJ	370 UJ	360 UJ	350 UJ	380 U
4-Methylphenol	370 U	370 U	370 U	360 U	350 U	380 U
n-Nitroso-di-n-propylamine	370 U	370 U	370 U	360 U	350 U	380 U
Hexachloroethane	370 U	370 U	370 U	360 U	350 U	380 U
Nitrobenzene	370 U	370 U	370 U	360 U	350 U	380 U
Isophorone	370 U	370 U	370 U	360 U	350 U	380 U
2-Nitrophenol	370 U	370 U	370 U	360 U	350 U	380 U
2,4-Dimethylphenol	370 U	370 U	370 U	360 U	350 U	380 U
bis(2-Chloroethoxy)Methane	370 U	370 U	370 U	360 U	350 U	380 U
2,4-Dichlorophenol	370 U	370 U	370 U	360 U	350 U	380 U
1,2,4-Trichlorobenzene	370 U	370 U	370 U	360 U	350 U	380 U
Naphthalene	370 U	370 U	370 U	360 U	350 U	380 U
4-Chloroaniline	370 U	370 U	370 U	360 U	350 U	380 U
Hexachlorobutadiene	370 U	370 U	370 U	360 U	350 U	380 U
4-Chloro-3-Methylphenol	370 U	370 U	370 U	360 U	350 U	380 U
2-Methylnaphthalene	370 U	370 U	370 U	360 U	350 U	380 U
Hexachlorocyclopentadiene	370 U	370 U	370 U	360 U	350 U	380 U
2,4,6-Trichlorophenol	370 U	370 U	370 U	360 U	350 U	380 U
2,4,5-Trichlorophenol	890 U	890 U	900 U	880 U	860 U	930 U
2-Chloronaphthalene	370 U	370 U	370 U	360 U	350 U	380 U
2-Nitroaniline	890 U	890 U	900 U	880 U	860 U	930 U
Dimethyl Phthalate	370 U	370 U	370 U	360 U	350 U	380 U
Acenaphthylene	370 U	370 U	370 U	360 U	350 U	380 U
2,6-Dinitrotoluene	370 U	370 U	370 U	360 U	350 U	380 U
3-Nitroaniline	890 U	890 U	900 U	880 U	860 U	930 U
Acenaphthene	370 U	370 U	370 U	360 U	350 U	380 U
2,4-Dinitrophenol	890 UJ	890 UJ	900 UJ	880 UJ	860 UJ	930 U
4-Nitrophenol	890 U	890 U	900 U	880 U	860 U	930 U
Dibenzofuran	370 U	370 U	370 U	360 U	350 U	380 U
2,4-Dinitrotoluene	370 U	370 U	370 U	360 U	350 U	380 U
Diethylphthalate	370 U	370 U	370 U	360 U	350 U	380 U
4-Chlorophenyl Phenyl Ether	370 U	370 U	370 U	360 U	350 U	380 U
Fluorene	370 U	370 U	370 U	360 U	350 U	380 U



Semivolatile Organic Analysis for Surface Soil Samples  
Henry Hoffman Landfill

Semivolatile Compound	Sample Location and Number					
	Concentrations in ug/kg					
	SS01	SS02	SS03	SS04	SS05	SS06 Background
4-Nitroaniline	890 U	890 U	900 U	880 U	860 U	930 U
4,6-Dinitro-2-Methylphenol	890 U	890 U	900 U	880 U	860 U	930 U
n-Nitrosodiphenylamine	370 U	370 U	370 U	360 U	350 U	380 U
4-Bromophenyl Phenyl Ether	370 U	370 U	370 U	360 U	350 U	380 U
Hexachlorobenzene	370 U	370 U	370 U	360 U	350 U	380 U
Pentachlorophenol	890 U	890 U	900 U	880 U	860 U	930 U
Phenanthrene	370 U	370 J	370 U	360 U	210 J	380 U
Anthracene	370 U	370 U	370 U	360 U	350 U	380 U
Carbazole	370 U	370 U	370 U	360 U	350 U	380 U
di-n-Butylphthalate	370 U	370 U	370 U	360 U	350 U	380 U
Fluoranthene	370 U	130 J	370 U	360 U	310 J	380 U
Pyrene	370 U	140 J	370 U	360 U	320 J	380 U
Butyl Benzyl Phthalate	370 U	370 U	370 U	360 U	350 U	380 U
3,3'-Dichlorobenzidine	370 U	370 U	370 U	360 U	350 U	380 U
Benzo(a)Anthracene	370 U	370 U	370 U	360 U	160 J	380 U
Chrysene	370 U	370 U	370 U	360 U	170 J	380 U
bis(2-Ethylhexyl)Phthalate	370 U	370 U	370 U	360 U	350 U	380 U
di-n-Octyl Phthalate	370 U	370 U	370 U	360 U	350 U	380 U
Benzo(b)Fluoranthene	370 U	120 J	370 U	360 U	290 J	380 U
Benzo(k)Fluoranthene	370 U	370 U	370 U	360 U	350 U	380 U
Benzo(a)Pyrene	370 U	370 U	370 U	360 U	150 J	380 U
Indeno(1,2,3-cd)Pyrene	370 U	370 U	370 U	360 U	350 U	380 U
Dibenzo(a,h)Anthracene	370 U	370 U	370 U	360 U	350 U	380 U
Benzo(g,h,i)Perylene	370 U	370 U	370 U	360 U	350 U	380 U
Total Number of TICs *	19	21	21	15	21	6

\* - Number, not concentrations, of tentatively identified compounds (TICs) found in each sample.

semisoil

Pesticide and PCB Analysis for Surface Soil Samples  
Henry Hoffman Landfill

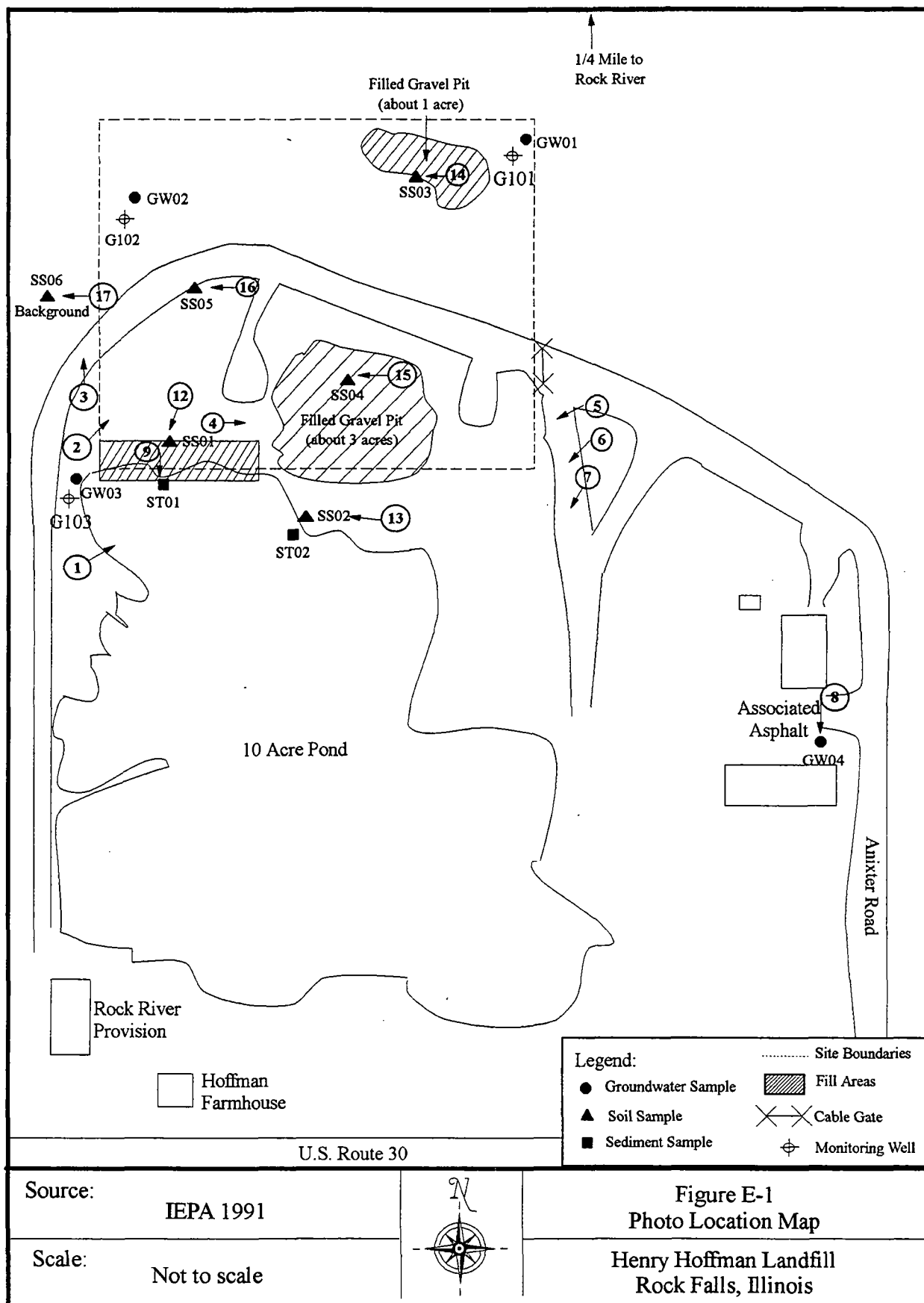
Pesticide / PCB	Sample Location and Number					
	Concentrations in ug/kg					
	SS01	SS02	SS03	SS04	SS05	SS06 Background
Alpha-BHC	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	2.0 U
Beta-BHC	1.9 U	0.59 JP	0.19 JP	0.27 JP	1.8 U	2.0 U
Delta-BHC	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	2.0 U
Gamma-BHC (Lindane)	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	2.0 U
Heptachlor	1.9 U	0.28 J	1.9 U	0.20 JP	0.55 J	2.0 U
Aldrin	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	2.0 U
Heptachlor Epoxide	1.9 U	1.9 U	0.50 JP	1.9 U	1.8 U	1.7 JP
Endosulfan I	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.6 JP
Dieldrin	6.5 JB	6.0 JB	5.5 JB	2.4 JBP	2.0 JBP	7.8 B
4,4'-DDE	3.7 U	3.7 U	0.78 JP	3.6 U	0.26 JP	3.8 U
Endrin	3.7 U	2.9 JBP	3.7 UJBP	3.6 UJBP	3.5 UJBP	3.8 UJBP
Endosulfan II	3.7 U	0.65 JP	3.7 U	3.6 U	0.51 JP	3.8 U
4,4'-DDD	0.73 JP	0.87 JP	1.3 J	3.6 U	3.5 U	3.8 U
Endosulfan Sulfate	3.7 U	3.7 U	3.7 U	3.6 U	3.5 U	3.8 U
4,4'-DDT	1.5 JP	2.1 JP	1.6 JP	0.76 JP	1.1 JP	3.8 U
Methoxychlor	2.0 JP	3.3 J	0.90 JP	0.53 JP	18 U	20 U
Endrin Ketone	3.7 U	3.7 U	0.86 JP	3.6 U	3.5 U	3.8 U
Endrin Aldehyde	3.7 P	3.7 U	3.7 U	3.6 U	3.5 U	3.8 U
Alpha-Chlordane	1.9 U	0.59 JP	1.9 U	1.9 U	1.8 U	2.0 U
Gamma-Chlordane	1.9 U	1.3 JP	1.9 U	1.9 U	1.8 U	2.0 U
Toxaphene	190 U	190 U	190 U	190 U	180 U	200 U
Aroclor-1016	37 U	37 U	37 U	36 U	35 U	38 U
Aroclor-1221	74 U	74 U	75 U	74 U	72 U	78 U
Aroclor-1232	37 U	37 U	37 U	36 U	35 U	38 U
Aroclor-1242	37 U	37 U	37 U	36 U	35 U	38 U
Aroclor-1248	37 U	37 U	37 U	36 U	35 U	38 U
Aroclor-1254	37 U	37 U	37 U	36 U	35 U	38 U
Aroclor-1260	37 U	37 U	37 U	36 U	35 U	38 U

PESTSOIL

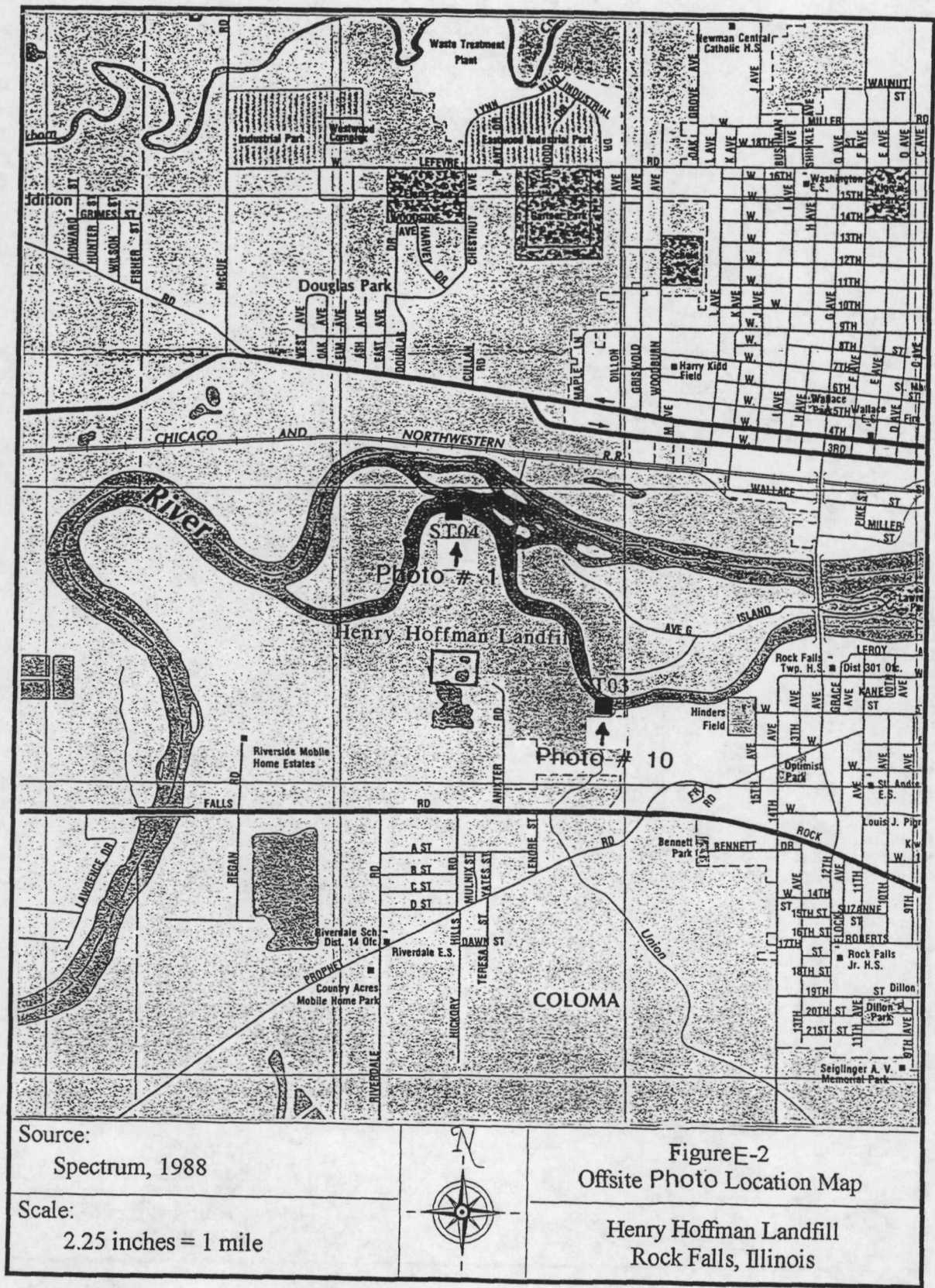
Inorganic Analysis for Surface Soil Samples Henry Hoffman Landfill						
Metals and Cyanide	Sample Locations and Number Concentrations in mg/kg					
	SS01	SS02	SS03	SS04	SS05	SS06 Background
Aluminum	7130 JE*	5470 JE*	6230 JE*	5310 JE*	2770 JE*	10400 JE*
Antimony	5.4 U	5.3 U	5.4 U	5.3 U	5.1 U	5.7 U
Arsenic	0.45 U	1.8 JBM	0.45 U	0.51 JBW	2.4 JM	0.47 U
Barium	104	87.2	85.0	77.7	38.1 B	118
Beryllium	0.28 B	0.22 U	0.22 U	0.22 U	0.21 U	0.37 B
Cadmium	0.92 B	1.4	0.90 U	0.89 U	1.3	1.8
Calcium	8750	18900	16200	12100	69600	3520
Chromium	10.6	7.1	11.6	7.4	5.6	10.4
Cobalt	5.7 B	4.0 B	3.8 B	1.5 B	1.1 U	8.1 B
Copper	7.8	5.9	5.8	7.1	3.5 B	8.5
Iron	11600 JE	8880 JE	9520 JE	7610 JE	6630 JE	14100 JE
Lead	0.45 U	0.45 U	0.45 U	0.44 U	0.43 U	0.47 U
Magnesium	5620	11100	9890	6640	40700	3000
Manganese	686	535	575	267	322	794
Mercury	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.12 U
Nickel	4.9 B	4.8 B	4.4 B	5.6 B	4.3 B	7.6 B
Potassium	923 B	554 B	845 B	605 B	431 B	657 B
Selenium	0.68 U	0.67 U	0.67 U	0.67 U	0.64 U	0.71 UJW
Silver	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U
Sodium	1860 *	2290 *	1550 *	2350 *	2020 *	2430 *
Thallium	0.68 U	0.67 U	0.67 U	0.67 U	0.64 U	0.71 U
Vanadium	17.0	12.3	13.5	9.9 B	8.1 B	20.7
Zinc	37.4	35.9	41.7	35.5	36.2	40.0
Cyanide	0.57 U	0.56	0.56 U	0.56 U	0.53 U	0.60 U

SOILMET.WK3

Appendix E  
Henry Hoffman Landfill  
Site Photographs



FRE00162  
9.23.94



FRE00161



**Date:** 5/25/93

**Time:** 0955

**Photo Taken By:** J. J. Noyes

**Photo Number:** 1

**Location:** Henry Hoffman Landfill

**Direction of Photo:** Northeast

**Description:** View of fill area and northern shore of onsite pond. Note rip rap and fill material exposed along edge of pond.



**Date:** 5/25/93

**Time:** 0958

**Photo Taken By:** J. J. Noyes

**Photo Number:** 2

**Location:** Henry Hoffman Landfill

**Direction of Photo:** Northeast

**Description:** View of site and old fill areas.





**Date:** 5/25/93

**Time:** 0958

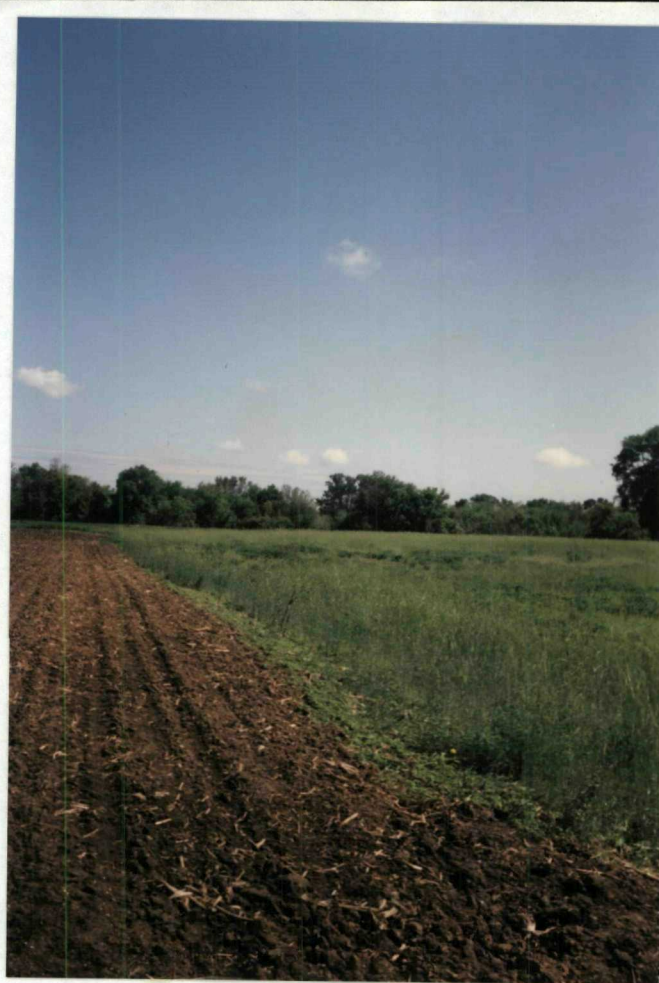
**Photo Taken By:** J. J. Noyes

**Photo Number:** 3

**Location:** Henry Hoffman Landfill

**Direction of Photo:** North

**Description:** End of fill along west border  
and where farm fields begin.



**Date:** 5/25/93

**Time:** 1002

**Photo Taken By:** J. J. Noyes

**Photo Number:** 4

**Location:** Henry Hoffman Landfill

**Direction of Photo:** East

**Description:** View of site and old fill areas  
facing east. Note vertical tanks in background  
on Associated Asphalts' property.





**Date:** 5/25/93

**Time:** 1013

**Photo Taken By:** J. J. Noyes

**Photo Number:** 5

**Location:** Henry Hoffman Landfill

**Direction of Photo:** Southwest

**Description:** Scattered drums and tanks strewn about on Associated Asphalts' property along Henry Hoffman Landfill's east border.



**Date:** 5/25/93

**Time:** 1013

**Photo Taken By:** J. J. Noyes

**Photo Number:** 6

**Location:** Henry Hoffman Landfill

**Direction of Photo:** Southwest

**Description:** Leaking drums on Associated Asphalts' property along landfill's east border.





**Date:** 5/25/93

**Time:** 1013

**Photo Taken By:** J. J. Noyes

**Photo Number:** 7

**Location:** Henry Hoffman Landfill

**Direction of Photo:** Southwest

**Description:** Storage tanks strewn about on Associated Asphalts' property along landfill's east border.



**Date:** 8/25/93

**Time:** 1430

**Photo Taken By:** J. J. Noyes

**Photo Number:** 8

**Location:** Henry Hoffman Landfill

**Direction of Photo:** South

**Description:** Location of GW04. Sandpoint well at Associated Asphalt.





**Date:** 8/26/93

**Time:** 1215

**Photo Taken By:** J. J. Noyes

**Photo Number:** 9

**Location:** Henry Hoffman Landfill

**Direction of Photo:** South

**Description:** Top of bank along northern shore of onsite pond. Location of ST01.



**Date:** 8/26/93

**Time:** 1000

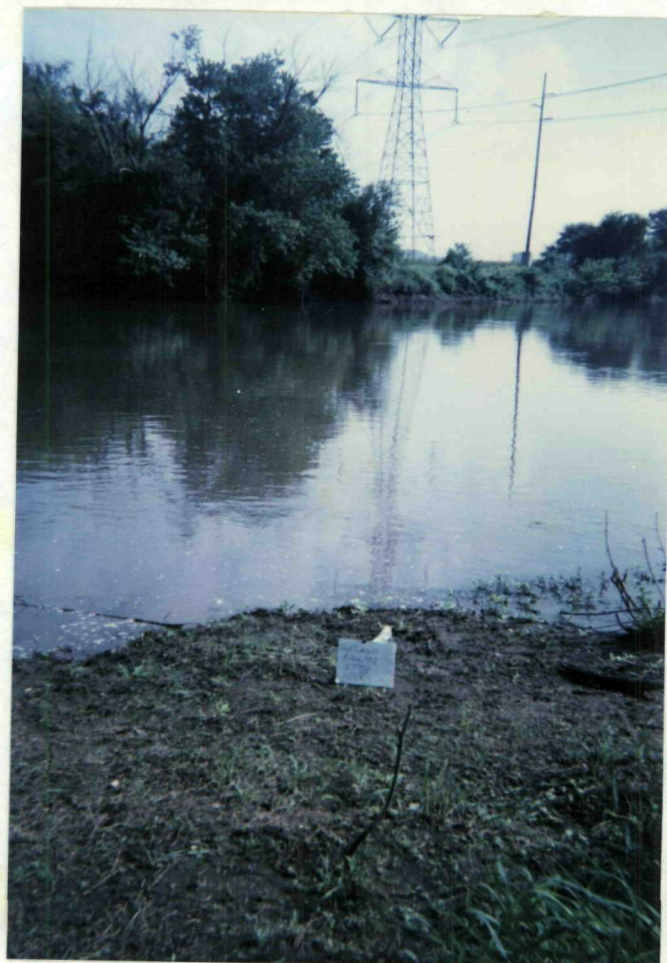
**Photo Taken By:** J. J. Noyes

**Photo Number:** 10

**Location:** Henry Hoffman Landfill

**Direction of Photo:** North

**Description:** Location of ST03 on Rock River.





**Date:** 8/26/93

**Time:** 1040

**Photo Taken By:** J. J. Noyes

**Photo Number:** 11

**Location:** Henry Hoffman Landfill

**Direction of Photo:** North

**Description:** Location of ST04 on Rock River.



**Date:** 8/24/93

**Time:** 1002

**Photo Taken By:** J. M. Albano

**Photo Number:** 12

**Location:** Henry Hoffman Landfill

**Direction of Photo:** Southwest

**Description:** SS01 sample location.





**Date:** 8/24/93

**Time:** 1010

**Photo Taken By:** J. M. Albano

**Photo Number:** 13

**Location:** Henry Hoffman Landfill

**Direction of Photo:** West

**Description:** SS02 sample location.



**Date:** 8/24/93

**Time:** 0945

**Photo Taken By:** J. M. Albano

**Photo Number:** 14

**Location:** Henry Hoffman Landfill

**Direction of Photo:** West

**Description:** SS03 sample location.





**Date:** 8/24/93

**Time:** 0950

**Photo Taken By:** J. M. Albano

**Photo Number:** 15

**Location:** Henry Hoffman Landfill

**Direction of Photo:** West

**Description:** SS04 sample location.



**Date:** 8/24/93

**Time:** 0952

**Photo Taken By:** J. M. Albano

**Photo Number:** 16

**Location:** Henry Hoffman Landfill

**Direction of Photo:** West

**Description:** SS05 sample location.





**Date:** 8/24/93

**Time:** 1020

**Photo Taken By:** J. M. Albano

**Photo Number:** 17

**Location:** Henry Hoffman Landfill

**Direction of Photo:** West

**Description:** SS06 sample location.



## Appendix F

Henry Hoffman Landfill

Representative Well Logs





## Illinois Environmental Protection Agency

## Well Completion Report

Site #: 1958130002

County: WHITESIDE

Well #: G101

Site Name: HOFFMAN LANDFILL

Grid Coordinate: Northing \_\_\_\_\_ Easting \_\_\_\_\_

Drilling Contractor: TESTING ENGINEERS, INC.

Date Drilled Start: 8-17-89

Driller: PATRICK J. HARMON

Geologist: JEFFREY L. MARTIN

Date Completed: 8-17-89

Drilling Method: HOLLOW STEM AUGERS

Drilling Fluids (type): NONE

## Annular Space Details

Type of Surface Seal: CONCRETE

Type of Annular Sealant: CEMENT/BENTONITE GROUT

Amount of cement: # of bags 6.0 lbs. per bag 94/cu. yd.

Amount of bentonite: # of bags 1.2 lbs. per bag 50/cu. yd.

Type of Bentonite Seal (Granular, Pellet): PELLET

Amount of bentonite: # of Bags 0.5 lbs. per bag 50

Type of Sand Pack: CAVE-IN

Source of Sand: CAVE-IN

Amount of Sand: # of bags \_\_\_\_\_ lbs. per bag \_\_\_\_\_

## Well Construction Materials

	Stainless Steel Specify Type	Teflon Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint			Tri-Loc	
Riser pipe above w.t.			Tri-Loc	
Riser pipe below w.t.			Tri-Loc	
Screen			Tri-Loc	
Coupling joint screen to riser			Tri-Loc	
Protective casing				Steel

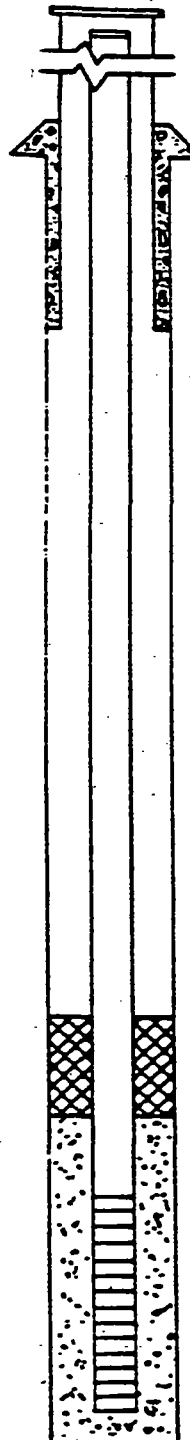
## Measurements

to .01 ft. (where applicable)

Riser pipe length	28.08
Protective casing length	5.0
Screen length	5.0
Bottom of screen to end cap	0.5
Top of screen to first joint	0.0
Total length of casing	5.0
Screen slot size	0.010"
# of openings in screen	
meter of borehole (in)	7
meter of riser pipe (in)	2

## Elevations — .01 ft.

639.71 \_\_\_\_\_ MSL Top of Protective Casing  
639.71 \_\_\_\_\_ MSL Top of Riser Pipe  
\_\_\_\_\_ 3.08 ft. Casing Stickup  
636.63 \_\_\_\_\_ MSL Ground Surface  
\_\_\_\_\_ 6.58 ft. Top of annular sealant



630.05 \_\_\_\_\_ ft. Top of Seal  
\_\_\_\_\_ 2.42 ft. Total Seal Interval  
627.63 \_\_\_\_\_ ft. Top of Sand  
616.75 \_\_\_\_\_ ft. Top of Screen  
\_\_\_\_\_ 5.0 ft. Total Screen Interval  
611.75 \_\_\_\_\_ ft. Bottom of Screen  
610.13 \_\_\_\_\_ ft. Bottom of Borehole

Completed by: JEFFREY MARTIN

Surveyed by: Benjamin H. Klingenberg Ill. registration # 2755

### MONITORING WELL DATA

MONITORING WELL NO. G101  
HOFFMAN LANDFILL  
SITE #1958130002  
WHITESIDE COUNTY, ILLINOIS  
AUGUST, 1989

LENGTH OF SCREENED SECTION	5.0	FT.
TIP AT ELEVATION	611.75	
TOTAL LENGTH OF RISER PIPE & SCREEN	27.96	FT.
TOP OF PIPE ELEVATION	639.71	
TOP OF CASING ELEVATION	639.71	
CASING STICKUP ABOVE GROUND.	3.08	FT.

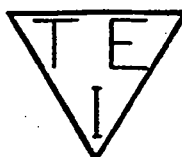
### SUMMARY OF WATER LEVEL MEASUREMENT

	<u>WATER ELEVATION</u>	<u>DATE</u>
WHILE DRILLING	613.63	8-17-89
ON COMPLETION	613.73	8-17-89
AFTER BAILING (DEVELOPMENT)	611.75	8-18-89
AFTER <u>0.5</u> HOURS	614.04	8-18-89
AFTER <u>    </u> DAYS		
AFTER <u>    </u> DAYS		
AFTER <u>    </u> DAYS		
AFTER <u>    </u> DAYS		
AFTER <u>    </u> DAYS		
AFTER <u>    </u> DAYS		
AFTER <u>    </u> DAYS		

LOG OF BORING NO. G101PROJECT HOFFMAN LANDFILL; 1958130002 - WHITESIDE COUNTY JOB NO. 2401OWNER HENRY HOFFMAN ORDER NO. \_\_\_\_\_ARCHITECT-ENGINEER WILLETT, HOFMANN & ASSOCIATES, INC.LOCATION 173'S., 454'E. OF NW CORNER OF SW 1/4 OF SEC. 29, T. 21N., R. 7E. OF THE  
4TH P.M., WHITESIDE COUNTY, ILLINOISDATUM U.S.G.S.

ELEV.	SOIL DESCRIPTION	DEPTH	SAMPLE		DIST.	REC.	N	γ	Q <sub>u</sub>	w%
			NO.	TYPE						
636.6	Dark brown SILTY SAND	0.0								
635.1	Brown SAND, trace silt, some fine gravel	1.5								
632.1	Very stiff dark brown and brown SANDY CLAYEY SILT, trace gravel	4.5	1	SS	X	X	10		2.2 P	15.6
629.1	Stiff gray and brown SANDY SILTY CLAY	7.5								
		10	2	SS	X	X	7		1.1 P	22.8
624.6		12.0								
	Very stiff brown SILTY CLAY, trace sand	15	3	SS	X	X	11		2.2 P	18.4
617.6	Stiff brown and dark gray ORGANIC SILTY CLAY, trace sand	19.0	4	SS	X	X	7		1.4 P	38.2
613.6	Loose gray medium and coarse SAND and fine and medium GRAVEL	23.0								
		25	5	SS	X	X	7			
610.1	END OF BORING	26.5								

Drilled By PJH Checked JLM  
 Inspector \_\_\_\_\_  
 Boring Started 8-17-89  
 Boring Completed 8-17-89  
 Sheet 1 of 1 Sheets



TEI-2

## WATER LEVELS

While Drilling -23.0' (613.6)  
 On Completion -22.9' (613.7)  
 After 5 Hours -22.4' (614.2)  
 After 24 Hours -21.2' (615.4)



## Illinois Environmental Protection Agency

## Well Completion Report

Site #: 1958130002 County WHITESIDE Well # G102  
Site Name: HOFFMAN LANDFILL Grid Coordinate: Northing \_\_\_\_\_ Easting \_\_\_\_\_  
Drilling Contractor: TESTING ENGINEERS, INC. Date Drilled Start: 8-17-89  
Driller: PATRICK J. HARMON Geologist: JEFFREY L. MARTIN Date Completed: 8-17-89  
Drilling Method: HOLLOW STEM AUGERS Drilling Fluids (type): NONE

## Annular Space Details

Type of Surface Seal: CONCRETE  
Type of Annular Sealant: CEMENT/BENTONITE GROUT  
Amount of cement: # of bags 6.0 lbs. per bag 94/cu. yd.  
Amount of bentonite: # of bags 1.2 lbs. per bag 50/cu. yd.  
Type of Bentonite Seal (Granular, Pellet): PELLET  
Amount of bentonite: # of Bags 0.5 lbs. per bag 50  
Type of Sand Pack: CAVE-IN  
Source of Sand: CAVE-IN  
Amount of Sand: # of bags \_\_\_\_\_ lbs. per bag \_\_\_\_\_

## Well Construction Materials

	Stainless Steel Specify Type	Teflon Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint			Tri-Loc	
Riser pipe above w.t.			Tri-Loc	
Riser pipe below w.t.			Tri-Loc	
Screen			Tri-Loc	
Coupling joint screen to riser			Tri-Loc	
Protective casing				Steel

## Measurements

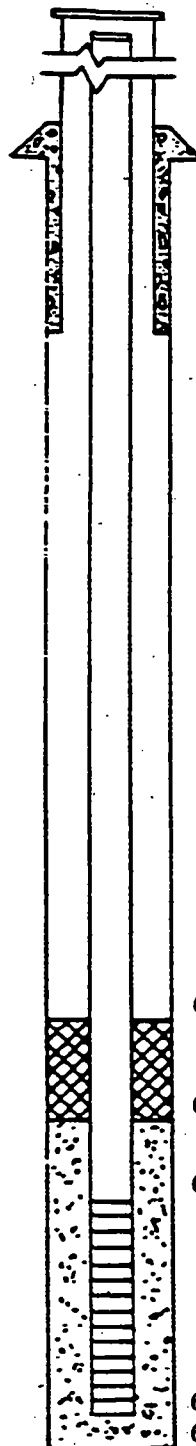
to .01 ft. (where applicable)

Riser pipe length	27.67
Protective casing length	5.0
Screen length	5.0
Bottom of screen to end cap	0.5
Top of screen to first joint	0.0
Total length of casing	5.0
Screen slot size	0.010"
# of openings in screen	
Diameter of borehole (in)	7
ID of riser pipe (in)	2

## Elevations — .01 ft.

639.05 \_\_\_\_\_ MSL Top of Protective Casing  
639.05 \_\_\_\_\_ MSL Top of Riser Pipe  
\_\_\_\_\_ 2.75 ft. Casing Stickup

636.30 \_\_\_\_\_ MSL Ground Surface  
\_\_\_\_\_ 14.75 ft. Top of annular sealant



621.55 \_\_\_\_\_ ft. Top of Seal  
\_\_\_\_\_ 2.17 ft. Total Seal Interval  
619.38 \_\_\_\_\_ ft. Top of Sand  
616.80 \_\_\_\_\_ ft. Top of Screen  
\_\_\_\_\_ 5.0 ft. Total Screen Interval  
611.80 \_\_\_\_\_ ft. Bottom of Screen  
609.80 \_\_\_\_\_ ft. Bottom of Borehole

Completed by: JEFFREY L. MARTIN Surveyed by: Bernard H. Klingenberg Ill. registration # 2755

MONITORING WELL DATA

MONITORING WELL NO. G102  
HOFFMAN LANDFILL  
SITE #1958130002  
WHITESIDE COUNTY, ILLINOIS  
AUGUST, 1989

LENGTH OF SCREENED SECTION	5.0	FT.
TIP AT ELEVATION	611.80	
TOTAL LENGTH OF RISER PIPE & SCREEN	27.25	FT.
TOP OF PIPE ELEVATION	639.05	
TOP OF CASING ELEVATION	639.05	
CASING STICKUP ABOVE GROUND.	2.75	FT.

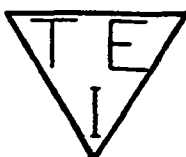
SUMMARY OF WATER LEVEL MEASUREMENT

	<u>WATER ELEVATION</u>	<u>DATE</u>
WHILE DRILLING	612.30	8-17-89
ON COMPLETION	613.80	8-17-89
AFTER BAILING (DEVELOPMENT)	614.30	8-18-89
AFTER ____ HOURS		
AFTER ____ DAYS		
AFTER ____ DAYS		
AFTER ____ DAYS		
AFTER ____ DAYS		
AFTER ____ DAYS		
AFTER ____ DAYS		

LOG OF BORING NO. G102PROJECT HOFFMAN LANDFILL; 1958130002 - WHITESIDE COUNTY JOB NO. 2401OWNER HENRY HOFFMAN ORDER NO. \_\_\_\_\_ARCHITECT-ENGINEER WILLETT, HOFMANN & ASSOCIATES, INC.LOCATION 101'S., 585'W. OF NE CORNER OF SE 1/4 OF SEC. 30, T. 21N., R. 7E.OF THE 4th P.M., WHITESIDE COUNTY, ILLINOISDATUM U.S.G.S.

ELEV.	SOIL DESCRIPTION	DEPTH	SAMPLE		DIST.	REC.	N	γ	Q <sub>u</sub>	w%
			NO.	TYPE						
636.3	Dark brown CLAYEY SILT,	0.0								
634.8	trace sand	1.5								
633.3	SEE NOTE 1	3.0								
632.3	Brown GRAVELLY SANDY CLAY	4.0								
			1	SS	X	X	13			
		10	2	SS	X	X	35			
	Medium to dense light brown medium and coarse SAND and GRAVEL	15	3	SS	X	X	25			
616.8		19.5	4	SS	X	X	29			
	Medium fine and medium SAND, trace to some gravel									
609.8		26.5	5	SS	X	X	27			
	END OF BORING									

Drilled By PJH Checked JLM  
 Inspector \_\_\_\_\_  
 Boring Started 8-17-89  
 Boring Completed 8-17-89  
 Sheet 1 of 1 Sheets



TEI-2

## WATER LEVELS

While Drilling -24.0' (612.3)  
 On Completion -22.5' (613.8)  
 After 24 Hours -21.8' (614.5)  
 After \_\_\_\_\_ Hours \_\_\_\_\_



## Illinois Environmental Protection Agency

## Well Completion Report

Site #: 1958130002 County WHITESIDE Well # G103  
Site Name: HOFFMAN LANDFILL Grid Coordinate: Northing \_\_\_\_\_ Easting \_\_\_\_\_

Drilling Contractor: TESTING ENGINEERS, INC. Date Drilled Start: 8-17-89  
Driller: PATRICK J. HARMON Geologist: JEFFREY L. MARTIN Date Completed: 8-17-89  
Drilling Method: HOLLOW STEM AUGERS Drilling Fluids (type): NONE

## Annular Space Details

Type of Surface Seal: CONCRETE  
Type of Annular Sealant: CEMENT/BENTONITE GROUT  
Amount of cement: # of bags 6.0 lbs. per bag 94/cu. yd.  
Amount of bentonite: # of bags 1.2 lbs. per bag 50/cu. yd.  
Type of Bentonite Seal (Granular, Pellet): PELLET  
Amount of bentonite: # of Bags 0.5 lbs. per bag 50  
Type of Sand Pack: CAVE-IN  
Source of Sand: CAVE-IN  
Amount of Sand: # of bags \_\_\_\_\_ lbs. per bag \_\_\_\_\_

## Well Construction Materials

	Stainless Steel Specify Type	Teflon Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint			Tri-Loc	
Riser pipe above w.t.			Tri-Loc	
Riser pipe below w.t.			Tri-Loc	
Screen			Tri-Loc	
Coupling joint screen to riser			Tri-Loc	
Protective casing				Steel

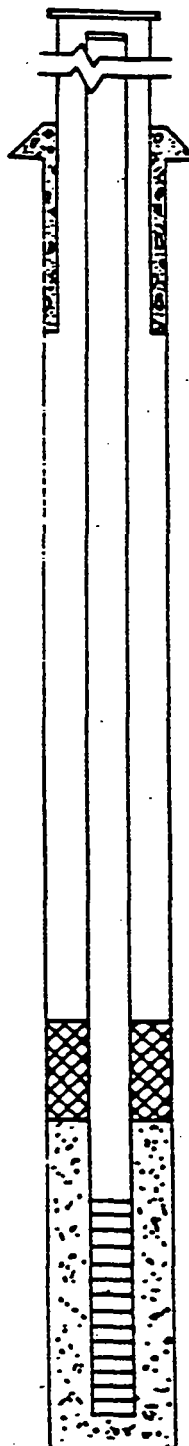
## Measurements

to .01 ft. (where applicable)

Riser pipe length	29.75
Protective casing length	5.0
Screen length	5.0
Bottom of screen to end cap	0.5
Top of screen to first joint	0.0
Total length of casing	5.0
Screen slot size	0.010"
% of openings in screen	
Diameter of borehole (in)	7
ID of riser pipe (in)	2

## Elevations — .01 ft.

640.41 MSL Top of Protective Casing  
640.41 MSL Top of Riser Pipe  
2.75 ft. Casing Stuckup  
637.66 MSL Ground Surface  
16.25 ft. Top of annular sealant



621.41 ft. Top of Seal  
2.08 ft. Total Seal Interval  
619.33 ft. Top of Sand  
616.16 ft. Top of Screen  
5.0 ft. Total Screen Interval  
611.11 ft. Bottom of Screen  
608.66 ft. Bottom of Borehole

Completed by: JEFFREY L. MARTIN Surveyed by: *Benjamin H. Klingenberg* Ill. registration # 2755

MONITORING WELL DATA

MONITORING WELL NO. G103  
HOFFMAN LANDFILL  
SITE #1958130002  
WHITESIDE COUNTY, ILLINOIS  
AUGUST, 1989

LENGTH OF SCREENED SECTION	5.0	FT.
TIP AT ELEVATION	610.66	
TOTAL LENGTH OF RISER PIPE & SCREEN	29.25	FT.
TOP OF PIPE ELEVATION	640.41	
TOP OF CASING ELEVATION	640.41	
CASING STICKUP ABOVE GROUND.	2.75	FT.

SUMMARY OF WATER LEVEL MEASUREMENT

	<u>WATER ELEVATION</u>	<u>DATE</u>
WHILE DRILLING	613.66	8-17-89
ON COMPLETION	614.58	8-17-89
AFTER BAILING (DEVELOPMENT)	614.74	8-18-89
AFTER ____ HOURS		
AFTER ____ DAYS		
AFTER ____ DAYS		
AFTER ____ DAYS		
AFTER ____ DAYS		
AFTER ____ DAYS		
AFTER ____ DAYS		
AFTER ____ DAYS		



testing engineers, inc.

1417 CHICAGO AVENUE  
67 AIRPORT DRIVE

P.O. BOX 548

DIXON, ILLINOIS 61021

PHONE (815) 288-1489

ROCKFORD, ILLINOIS 61109

PHONE (815) 984-8030

FOUNDATION BORINGS AND REPORTS  
MATERIAL TESTING AND REPORTS  
SOIL SURVEYS AND ANALYSIS

LOG OF BORING NO. G103

PROJECT HOFFMAN LANDFILL; 1958130002 - WHITESIDE COUNTY JOB NO. 2401

OWNER HENRY HOFFMAN ORDER NO. \_\_\_\_\_

ARCHITECT-ENGINEER WILLETT, HOFMANN & ASSOCIATES, INC.

LOCATION 504'S., 585'W. OF NE CORNER OF SE 1/4 OF SEC. 30, T. 21N., R. 7E.

OF THE 4TH P.M., WHITESIDE COUNTY

DATUM U.S.G.S.

ELEV.	SOIL DESCRIPTION	DEPTH	SAMPLE		DIST.	REC.	N	γ	Q <sub>u</sub>	w%
			NO.	TYPE						
637.7	Brown medium and coarse SAND and GRAVEL	0.0								
635.2		2.5								
633.2	Dark brown GRAVELLY CLAYEY SAND	4.5								
	Medium brown fine and medium SAND, trace gravel		1	SS	X	X	13			
629.7		8.0								
	Medium light brown medium and coarse SAND and GRAVEL	10	2	SS	X	X	18			
623.2		14.5								
	Medium brown SAND, some fine and medium gravel		3	SS	X	X	27			
617.7		20.0								
			4	SS	X	X	26			
		25								
	Medium brown SAND and GRAVEL		5	SS	X	X	22			
608.7		29.0								
	END OF BORING		6	SS	X	X	28			

Drilled By PJH Checked JLM  
Inspector \_\_\_\_\_  
Boring Started 8-17-89  
Boring Completed 8-17-89



WATER LEVELS

While Drilling -24.0' (613.7)  
On Completion -23.1' (614.6)  
After 24 Hours -23.0 (614.7)  
After \_\_\_\_\_ Hours \_\_\_\_\_

# Reference Number 1

Illinois State Geological Survey  
Urbana, Illinois  
Russell, Burdsall and Ward #1

— Rock Falls —

R 7E  
T 21  
N  
Sec. 27  
Whiteside C

Elevation: 625 E.T.M.

Drilled: 1960 by Layne Western Co.

Sample Set No. 35189

Studied 3/60 by Frank J. Wobber

		15	15	15		Fill	
S I L U R I A N			45	60		Dolomite, cherty, buff to white	
		110	35	95		Dolomite, white, fine to medium	
			20	115		Dolomite, cherty, white	
			10	125		Dolomite, silty, green	
O R D O V I C I A N  S Y S T E M	Maquoketa	190	65	190		Shale, green to greenish-gray, weak; dolomite, buff to gray	
			80	270		Dolomite, gray to white, fine to medium; shale, green, weak	
			45	315		Shale, gray to brown, weak; little dolo- mite	
	Galena	225	40	355		Dolomite, buff, fine, little medium	
			110	465		Dolomite, buff to white, fine to medium; little dolomite, silty, buff to gray	
			75	540		Dolomite, cherty, buff	
	Decorah	50	20	560		Dolomite, buff, gray, speckled	
			30	590		Dolomite, buff, brown, speckled (red), trace shale partings	
	Platteville	95	30	620		Dolomite, cherty, buff, little gray, fine	
			45	665		Dolomite, buff to gray, fine, mottled	
S Y S T E M	Glenwood	75	20	685		Dolomite, sandy, gray; shale	
			10	695		Shale, green; sandstone, medium	
			55	750		Sandstone, slight dolomitic, fine to medium, little coarse	

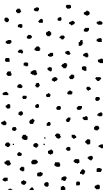
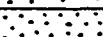
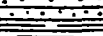



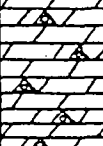
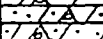
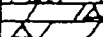
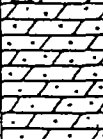
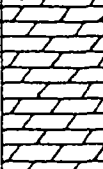
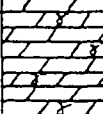
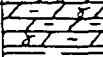
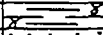
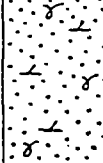
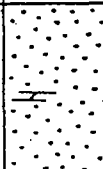
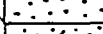
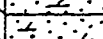
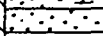

90' Static  
Water  
Level

16" O.D.  
59'

19 1/2"  
hole

3'

15 1/2"  
hole

St. Peter	185	110		Sandstone, fine to medium, incoherent	877'	
		15	875			Sandstone, medium, little fine
		10	885			Sandstone, fine; shale, red, tough
		50	935			Shale, red, green, weak; little sandstone
Shakopee	175	25	950		Dolomite, sandy, white, buff, fine	951.7'
		90	1050		Dolomite, cherty, white to gray, fine	
		60	1110		Dolomite, cherty, buff, fine	
		15	1125		Dolomite, sandy, cherty, buff to white	
New Richmond	15	15	1140		Dolomite, cherty, buff, white, fine	12" hole
Oneota	75	60	1200		Dolomite, very sandy, white, pinkish-buff, fine to medium	
		75	1275		Dolomite, buff to white; fine	
Trempealeau	120	45	1320		Dolomite, glauconitic, buff to white, fine	T.D.
		25	1345		Dolomite, silty, glauconitic, buff, red; little shale	
Franconia	110	10	1355		Shale, glauconitic, green to gray, weak	
		75	1430		Sandstone, dolomitic, glauconitic, greenish-gray, fine to very fine	
Iron-ton-Galesville	115	80	1510		Sandstone, white, fine to coarse	T.D.
		10	1520		Sandstone, dolomitic, fine to medium	
		15	1535		Sandstone, dolomitic, fine to very fine	
		10	1545		"Sand, gray"	
au Claire	7	1552		"Shale"	T.D.	

Illinois State Geological Survey  
Urbana, Illinois  
NORTHWESTERN STEEL & WIRE CO., WELL #1

T 21 N - S 2

Elevation: 625' Estimate Topo. Map  
Drilled 1952 by Allabaugh Well Company

107-1636 Drilled by J.P. Miller  
8-15-52

Sample Set No. 20113  
Studied 1952 by J.W. Banton

		20	20	20		Fill clay; gravel on top
SILURIAN	NIAGARAN	65	65	85		Dolomite, white to yellowish orange
	ALEXANDRIAN	73	73	158		Dolomite, cherty, white to light gray
MAQUOKETA			67			Shale, greenish gray, weak
				225		
		197	57			Dolomite, dark gray to greenish gray
				282		
			58			Shale, greenish gray, weak
				340		
			15	355		Shale, brownish gray; dolomite
			110			Dolomite, pale brownish gray
				465		
GALENA		213				
			70			Dolomite, cherty, pale brownish gray
				535		
			33	568		Dolomite, pale brownish gray
ION		27	27	595		Dolomite, cherty, gray; shale
GUTTENBERG		5	5	600		Dolomite, cherty, yellowish brown
PLATTVILLE			70			Dolomite, cherty, grayish brown
		120		670		
			50			Dolomite, brownish gray; sandy at bottom
				720		
CLENWOOD		35	35	755		Sandstone, white; shale; dolomite

12" hole  
8" hole  
6" hole  
200'

SHAKOPEE	155	15	800		Dolomite, sandy, reddish brown
		50	850		Dolomite, cherty, brownish gray
		30	880		Dolomite, cherty, sandy, brownish gray
		40	920		Dolomite, cherty, brown
NEW RICHMOND	35	35	955		Sandstone, light gray; dolomite
ONEOTA	185	135			Dolomite, cherty, light gray
			1090		
		50	1110		Dolomite, cherty, pale brownish gray
GUNTER	35	25	1165		Chert, white; sandstone
		10	1175		Sandstone, white
TREMPEALEAU	168	70			Dolomite, sandy, light gray
			1245		
		98			Dolomite, pale brownish gray
			1343		
FRANCONIA	94	12	1355		Dolomite, yellowish brown, sandy
		10	1365		Sandstone, light green
		45			Shale, greenish gray
		27	1437		Sandstone, light greenish gray; dolomite shale
IRONTON	83	83	1520		Sandstone, light gray, coarse; shale
CALESVILLE	74	74	1594		Sandstone, light gray, fine
EAU CLAIRE	12	16	1610		Shale, dark greenish gray
		25	1636		Sandstone, pale brownish gray

1382'

6"  
I.O.  
pipe

1452'

## INSTRUCTION - DRILLERS

White Copy -  
Ill. Dept. of Public Health  
Yellow Copy - Well Contractor  
Blue Copy - Well Owner

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE  
DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST  
JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER  
SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

# ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

## GEOLOGICAL AND WATER SURVEYS WELL RECORD

## 1. Type of Well

- a. Dug ☐ Bored ☐ Hole Diam. 16 in. Depth 1643 ft.  
Curb material ☐ Buried Slab: Yes ☐ No ☐  
b. Driven ☒ Drive Pipe Diam. ☐ in. Depth ☐ ft.  
c. Drilled ☐ Finished in Drift ☐ In Rock ☒  
Tubular ☐ Gravel Packed ☐  
d. Grout:

309 bags

(KIND)	FROM (Ft.)	TO (Ft.)
	0	844

## 2. Distance to Nearest:

Building 10+ Ft. Seepage Tile Field 75  
Cess Pool ☐ Sewer (non Cast Iron) ☐  
Privy ☐ Sewer (Cast Iron) ☐  
Septic Tank 50+ Barnyard ☐  
Leaching Pit ☐ Manure Pile ☐

3. Well furnishes water for human consumption? Yes ☒ No ☐4. Date well completed 8-1-805. Permanent Pump Installed? Yes ☐ Date ☐ No ☒Manufacturer ☐ Type ☐ Location ☐Capacity ☐ gpm. Depth of Setting ☐ Ft.6. Well Top Sealed? Yes ☒ No ☐ Type ☐7. Pitless Adapter Installed? Yes ☐ No ☒Manufacturer ☐ Model Number ☐How attached to casing? ☐8. Well Disinfected? Yes ☒ No ☐9. Pump and Equipment Disinfected? Yes ☐ No ☐10. Pressure Tank Size ☐ gal. Type ☐Location ☐11. Water Sample Submitted? Yes ☐ No ☒

REMARKS:

No shot

215096 SPMH

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Richard H. Wehling DATE 8-7-80

WEHLING WELL WORKS, INC.

Filed 1-30-81

Cont'd on back

10. Property owner Northwestern Steel & Wire Well No. 102-223Address 121 Wallace St. Sterling, ILDriller Richard H. Wehling License No. 102-22311. Permit No. 94622 Date 6-30-8012. Water from ☐ Formation ☐ 13. County Whitesideat depth ☐ to ☐ ft. Sec. 29.1h14. Screen: Diam. ☐ in. Twp. 21NLength: ☐ ft. Slot ☐ Rge. 7E460'S 510'W NE corner Elev. ☐

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
16	Black steel	+1	30
12 3/4	" " cemented	+1	844
10 3/4	" "	1318	1458

SHOW  
LOCATION IN  
SECTION PLAT460'S 510'W NE/4

(industrial)

16. Size Hole below casing: 15 3/4 in.17. Static level 87 ft. below casing top which is 1 1/2 ft.  
above ground level. Pumping level 291 ft. when pumping at 823  
gpm for 24 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Lime	15	15
Yellow Lime	20	65
Lime	35	100
Yellow Lime	10	110
White Lime	10	110
Lime	50	160
Shale	85	245
Shale w/ Lime	45	290
Shale	75	365
Lime	355	720
Shale	20	740
Sand & Shale	10	750
Shale Red w/ sand	70	820
Shale Red w/ lime	10	830
Lime	20	850

Date	Loc.	Test	D	P	W	C

Rock Falls  
Whiteside County

(23710-50M-9-60)



Page 1

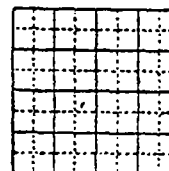
ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
Black sandy top soil		0	3
Fine yellow sand		3	10
Gray fine to coarse sand and gravel		10	28
Fine yellow sand		28	32
Fine gray coarse sand, some gravel and small boulders		32	47
Fine gray sand, some small boulders and clay balls		47	54
Soft gray clay		54	60
Fine to coarse gray sand, some small gravel		60	67
Coarse sand, gravel and boulders, some fine sand.		67	69.5
Broken yellow limestone		69.5	70.5 TD
Casing: 29'9" - 16"; 3/8" thick steel with welded joints from +2 to 279"			
7' - 16"; 3/8" steel with welded joints from 52'9" - to - 59'9"			
22' - 26"; 3/8" thick steel with welded joints from +2' to 20'			
Screen Record: Type Layne shutter 25' - 16" with #7 opening, bronze with welded joints from 27'9" to 52'9"			
10' - 16" with #7 opening, bronze with welded joints from 59'9" to 69'9"			
Type of seal at Bottom - Steel plate			

COMPANY Layne-Western Company  
FARM Rock Falls  
DATE DRILLED October 1961  
AUTHORITY Layne-Western Company  
ELEVATION  
LOCATION 3138'N line, 2128'N line of section  
COUNTY WHITESIDE

NO. 3

COUNTY NO. 133



33-21N-7E

Layne-Western Company  
COUNTY WHITESIDE

Rock Falls #3  
33-21N-7E

Strata	Thickness	Top	Bottom
Hole Record: 32" from 0 to 10' 36" from 10' - 69'9"			
Gravel Pack Record: 29.8 gallons #2 size from +2 to 69'9"			
Cementing Record: Annular space between 36" hole and 26" casing grouted from ground surface to 18'.			
Back fill Record: 2' of sand on out- side of 26" casing from 18' to 20'.			
Well Test Data: Static Level 13' pumping level 28 after 20 hours pumping at 1251 gallons per minute Length of test 21 hours.			

County **Layne-Western Company**  
**WHITESIDE**

**Rock Falls #3**  
**33-21N-7E**



# ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

## 1. Type of Well

- a. Dug ☐ Bored ☐ Hole Diam. 6 in. Depth 302 ft.  
Curb material ☐ Buried Slab: Yes ☐ No ☐  
b. Driven ☐ Drive Pipe Diam. ☐ in. Depth ☐ ft.  
c. Drilled ☒ Finished in Drift ☐ In Rock ☒  
Tubular ☐ Gravel Packed ☐  
d. Grout:

(KIND)	FROM (FT.)	TO (FT.)
Clay	0	130

## 2. Distance to Nearest:

Building 40 Ft. Seepage Tile Field 200  
Cess Pool ☐ Sewer (non Cast iron) ☐  
Privy ☐ Sewer (Cast iron) ☐  
Septic Tank 140 Barnyard ☐  
Leaching Pit ☐ Manure Pile ☐

3. Well furnishes water for human consumption? Yes ☒ No ☐

4. Date well completed DEC 18, 81

5. Permanent Pump Installed? Yes ☐ Date ☐ No ☒

Manufacturer ☐ Type ☐ Location ☐  
Capacity ☐ gpm. Depth of Setting ☐ Ft.

6. Well Top Sealed? Yes ☒ No ☐ Type ☐

7. Pitless Adapter Installed? Yes ☐ No ☒

Manufacturer ☐ Model Number ☐  
How attached to casing? ☐

8. Well Disinfected? Yes ☒ No ☐

9. Pump and Equipment Disinfected? Yes ☐ No ☐

10. Pressure Tank Size ☐ gal. Type ☐  
Location ☐

11. Water Sample Submitted? Yes ☐ No ☒

## REMARKS:

We do not put in small pumps

# GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Sterling Co-Op Well No. ☐

Address 17150 Pennington Rd, Sterling, IL.

Driller Glenn L. Lyons License No. #1

11. Permit No. 102281 Date Nov 30, 1981

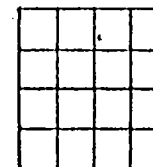
12. Water from White limestone 13. County Whiteside

Formation  
at depth 105 to 302 ft. Sec. 9.29

14. Screen: Diam. ☐ in. Twp. 21N

Length: ☐ ft. Slot ☐ Rge. 7E

Elev. ☐



## 15. Casing and Liner Pipe

Diam. (In.)	Kind and Weight	From (Ft.)	To (Ft.)
6"	Steel T & C 19.45	0	130

SHOW  
LOCATION IN  
SECTION PLAT  
140'S 125'E NW4  
SW NW NE

(Industrial)

16. Size Hole below casing: 6 in.

17. Static level 65 ft. below casing top which is 2 ft.

above ground level. Pumping level 250 ft. when pumping at 15  
gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Top Soil	1	1
Yellow Clay	2	3
Sandy Clay Yellow	14	17
Gravel	19	36
Gravel and blue Clay	6	42
Blue Clay	63	105
White Limestone	197	302

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Glenn Lyons DATE 1-6-82

White Copy -  
Ill. Dept. of Public Health  
Yellow Copy - Well Contractor  
Blue Copy - Well Owner

# INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

## ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

## GEOLOGICAL AND WATER SURVEYS WELL RECORD

### 1. Type of Well

- a. Dug \_\_\_\_\_ Bored \_\_\_\_\_ Hole Diam. \_\_\_\_\_ in. Depth \_\_\_\_\_ ft.  
Curb material \_\_\_\_\_ Buried Slab: Yes \_\_\_\_\_ No \_\_\_\_\_
- b. Driven \_\_\_\_\_ Drive Pipe Diam. \_\_\_\_\_ in. Depth \_\_\_\_\_ ft.
- c. Drilled X Finished in Drift \_\_\_\_\_ In Rock X  
Tubular \_\_\_\_\_ Gravel Packed \_\_\_\_\_
- d. Grout:

(KIND)	FROM (FT.)	TO (FT.)
Bentonite	0	94'

### 2. Distance to Nearest:

Building 60' Ft. Seepage Tile Field 100'  
Cess Pool None Sewer (non Cast iron) 100'  
Privy None Sewer (Cast iron) None  
Septic Tank 100' Barnyard None  
Leaching Pit None Manure Pile None

3. Well furnishes water for human consumption? Yes Yes No \_\_\_\_\_

4. Date well completed Dec 22 1988

5. Permanent Pump Installed? Yes \_\_\_\_\_ Date \_\_\_\_\_ No No

Manufacturer \_\_\_\_\_ Type \_\_\_\_\_ Location \_\_\_\_\_  
Capacity \_\_\_\_\_ gpm. Depth of Setting \_\_\_\_\_ Ft.

6. Well Top Sealed? Yes Yes No \_\_\_\_\_ Type compression

7. Pitless Adapter Installed? Yes \_\_\_\_\_ No No

Manufacturer \_\_\_\_\_ Model Number \_\_\_\_\_  
How attached to casing? \_\_\_\_\_

8. Well Disinfected? Yes Yes No \_\_\_\_\_

9. Pump and Equipment Disinfected? Yes \_\_\_\_\_ No \_\_\_\_\_

10. Pressure Tank Size \_\_\_\_\_ gal. Type \_\_\_\_\_

Location \_\_\_\_\_

11. Water Sample Submitted? Yes \_\_\_\_\_ No No

### REMARKS:

20  
20  
20  
20  
15'-8"  
95'-8"

Well seal  
Well packer  
Clorine

Co. # 215

IDPH 5  
1/74 - NB-1

10. Property owner \_\_\_\_\_ Well No. \_\_\_\_\_

Address \_\_\_\_\_

Driller Jonas Martin License No. 092-003326

11. Permit No. 008013 Date 11-23-88

12. Water from Limestone 13. County Whiteside

Formation  
at depth 95 to 235 ft.

Sec. 58E

14. Screen: Diam. \_\_\_\_\_ in.

Twp. 21N

Length: \_\_\_\_\_ ft. Slot \_\_\_\_\_

Rge. 7E

Elev. 680

X			

### 15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6"	PVC		95'-8"

SHOW  
LOCATION IN  
SECTION PLAT  
N10 S10 W10

16. Size Hole below casing: 6 in.

17. Static level 80 ft. below casing top which is 1 ft.  
above ground level. Pumping level 100' ft. when pumping at 20  
gpm for 4 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Topsoil and Clay	15'	15'
Shale	73'	88'
Limestone (Gray)	147'	235'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Jonas Martin DATE Dec 28-1988

White Copy -  
Ill. Dept. of Public Health  
Yellow Copy - Well Contractor  
Blue Copy - Well Owner

# INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUEST AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

## ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

## GEOLOGICAL AND WATER SURVEYS WELL RECORD

### 1. Type of Well

- a. Dug ☐ Bored ☐ Hole Diam.  in. Depth  ft.  
Curb material  Buried Slab: Yes ☐ No ☐  
b. Driven ☐ Drive Pipe Diam.  in. Depth  ft.  
c. Drilled ☒ Finished in Drift ☐ In Rock ☒  
Tubular ☐ Gravel Packed ☐  
d. Grout:

(KIND)	FROM (FT.)	TO (FT.)
Bentonite	+0	273'

### 2. Distance to Nearest:

Building 40 Ft. Seepage Tile Field 100' +  
Cess Pool None Sewer (non Cast iron) 100' +  
Privy None Sewer (Cast iron) 100' +  
Septic Tank 100' + Barnyard None  
Leaching Pit None Manure Pile None

3. Well furnishes water for human consumption? Yes Yes No ☐

4. Date well completed Feb 25, 1987

5. Permanent Pump Installed? Yes ☐ Date  No No

Manufacturer  Type  Location   
Capacity  gpm. Depth of Setting  Ft.

6. Well Top Sealed? Yes Yes No ☐ Type

7. Pitless Adapter Installed? Yes ☐ No No

Manufacturer  Model Number   
How attached to casing?

8. Well Disinfected? Yes Yes No ☐

9. Pump and Equipment Disinfected? Yes ☐ No ☐

10. Pressure Tank Size  gal. Type

Location

11. Water Sample Submitted? Yes ☐ No No

REMARKS: 2 1/4" 256

12 15.4"

4 2 2.9"

21 274-1"

252

4

IDPR 5.06

1/74 - NB-1

St Permitt  
Shop  
Clarino  
Co # 21399

10. Property owner Donna Martin Well No. 7

Address

Driller Donna Martin License No. 92332

11. Permit No. 128933 Date 4/26/1987

12. Water from Limestone 13. County Whiteside

at depth 265 to 590 ft.

14. Screen: Diam.  in.

Length:  ft. Slot

Sec. 23.61  
Twp. 21N  
Rge. 2E  
Elev. 700

X		

### 15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6	Wt steel	+1	274'

SHOW LOCATION IN SECTION PLAT  
50'SL 50'WL  
NW NE NW

16. Size Hole below casing: 6 in.

17. Static level 100 ft. below casing top which is 1 ft. above ground level. Pumping level 205 ft. when pumping at 45 gpm for 5 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
top soil and clay	8'	8'
Gravel	16'	24'
Shale	11'	35'
Limestone	5'	40'
Shale	225'	265'
Lime stone	225	590'
	225	

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Donna Martin DATE Feb 27, 1987

White Copy -  
Ill. Dept. of Public Health  
Yellow Copy - Well Contractor  
Blue Copy - Well Owner

# INSTRUCTIONS TO WELL OWNERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

## ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

### 1. Type of Well

- a. Dug \_\_\_\_\_ Bored \_\_\_\_\_ Hole Diam. \_\_\_\_\_ In. Depth \_\_\_\_\_ ft.  
Curb material \_\_\_\_\_ Buried Slab: Yes \_\_\_\_\_ No \_\_\_\_\_
- b. Driven \_\_\_\_\_ Drive Pipe Diam. \_\_\_\_\_ In. Depth \_\_\_\_\_ ft.
- c. Drilled X Finished In Drift \_\_\_\_\_ In Rock X  
Tubular \_\_\_\_\_ Gravel Packed \_\_\_\_\_
- d. Grout:

(KIND)	FROM (FT.)	TO (FT.)
Bentonite		
Drilling Mud	0	212'

### 2. Distance to Nearest:

Building 25 Ft. Seepage Tile Field 100'  
Cess Pool None Sewer (non Cast Iron) 100'  
Privy None Sewer (Cast Iron) 35'  
Septic Tank 100' Barnyard None  
Leaching Pit None Manure Pile None

3. Well furnishes water for human consumption? Yes X No \_\_\_\_\_

4. Date well completed Jan. 2 1985

5. Permanent Pump Installed? Yes X Date Jan 5-85 No \_\_\_\_\_

Manufacturer Red Jacket Type Sub Location In well  
Capacity 10 gpm. Depth of Setting 252' Ft.

6. Well Top Sealed? Yes X No \_\_\_\_\_ Type Water Tight

7. Pitless Adapter Installed? Yes X No \_\_\_\_\_

Manufacturer Baker Model Number Snapper  
How attached to casing? Clamp

8. Well Disinfected? Yes X No \_\_\_\_\_

9. Pump and Equipment Disinfected? Yes X No \_\_\_\_\_

10. Pressure Tank Size 36 gal. Type per. pressure  
Location In Basement

11. Water Sample Submitted? Yes \_\_\_\_\_ No \_\_\_\_\_

REMARKS: 20'-6" 20'-8"  
21'-2" 17'-3"  
17'-11" 17'-11"  
19'-3 18'-4  
18'-0 18'-5  
21'-2 21'-10  
213'-5

Well shoe  
seperimite  
Coperimite  
chlorine

## GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Family Tailored Homes Inc Well No. \_\_\_\_\_  
Address 423 Locust Sterling Ill  
Driller Jonas Martin License No. 92332
11. Permit No. 116153 Date Dec 12-1984
12. Water from Limestone Formation at depth 213 to 565 ft. Sec. 6.1N  
13. County White Side Twp. 21N  
Rge. 7E  
Elev. 725
14. Screen: Diam. \_\_\_\_\_ In. Length: \_\_\_\_\_ ft. Slot \_\_\_\_\_


### 15. Casing and Liner Pipe Lot 4 Hickory Hills

Diam. (In.)	Kind and Weight	From (Ft.)	To (Ft.)
6"	WE Steel 17.55	+ 1 1/2'	213.5

SHOW LOCATION IN SECTION PLAT  
Lot #4  
Hickory Hills  
100' N 100' E  
S 1/4 NE SE SE

16. Size Hole below casing: 6 in.
17. Static level 156 ft. below casing top which is 1 1/2 ft. above ground level. Pumping level 220 ft. when pumping at 10 gpm for 4 hours. Max Water 23 gal per Min. Dry

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay Fill	3	3'
Black Soil	2	5'
Clay	25'	30'
Sandy Clay	10	40'
Blue Shale	165'	205'
White Limestone	360	565'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Jonas Martin DATE Jan 9-1985

White Copy -  
Ill. Dep. of Pub. Health  
Yellow Copy - Well Contractor  
Blue Copy - Well Owner

# INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

## ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

### 1. Type of Well

- a. Dug ☐ Bored ☐ Hole Diam.  in. Depth  ft.  
Curb material  Buried Slab: Yes ☐ No ☐
- b. Driven ☐ Drive Pipe Diam.  in. Depth  ft.
- c. Drilled ☒ Finished in Drift ☐ In Rock ☒  
Tubular ☐ Gravel Packed ☐
- d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Drillcutting	0	47'

### 2. Distance to Nearest:

Building 5 Ft. Seepage Tile Field None  
Cess Pool None Sewer (non Cast iron) "  
Privy " Sewer (Cast iron) "  
Septic Tank " Barnyard "  
Leaching Pit " Manure Pile "

3. Well furnishes water for human consumption? Yes Yes No ☐

4. Date well completed May 15-1987

5. Permanent Pump Installed? Yes ☐ Date  No No

Manufacturer  Type  Location   
Capacity  gpm. Depth of Setting  Ft.

6. Well Top Sealed? Yes Yes No ☐ Type Compression

7. Pitless Adapter Installed? Yes ☐ No ☐

Manufacturer  Model Number   
How attached to casing?

8. Well Disinfected? Yes Yes No ☐

9. Pump and Equipment Disinfected? Yes ☐ No ☐

10. Pressure Tank Size  gal. Type

Location

11. Water Sample Submitted? Yes ☐ No ☐

### REMARKS:

21-4  
21-4  
6-0  
48' 8"

Wellshop Co # 21412  
Stpermitt  
Copermitt  
Clorine

## GEOLOGICAL AND WATER SURVEYS WELL RECORD

*Butler Stone Quarry, Dist. Control*

10. Property owner  Well No.

Address

Driller Jonas Martin License No. 92332

11. Permit No. 131604 Date May 12 1987

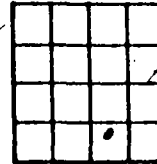
12. Water from Limestone 13. County Whiteside

at depth 125 to 500 ft. Sec. 13.1e

14. Screen: Diam.  in. Twp. 21N

Length:  ft. Slot  Rge. 6E

Elev. 700'



### 15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6"	Wt Steel	0	48' 8"

SHOW  
LOCATION IN  
SECTION PLAT

100' NL 40' EL  
SE SE NE  
Commercial Sp.

16. Size Hole below casing: 6 in.

17. Static level 125 ft. below casing top which is 1 ft.

above ground level. Pumping level 225 ft. when pumping at 40

gpm for 4 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay	10	10
Yellow Limestone	50'	60'
Gray Limestone	30'	90'
Shale	210'	300'
Limestone Gray	225	525
Shale	5	530
Gray Limestone	45	575

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Jonas Martin DATE May 16

White & Pink Copies:  
Ill. Dep of Public Health  
Yellow Copy: Well Contractor  
Golden Copy: Well Owner

## Well Construction Report

THIS FORM MUST BE COMPLETED WITHIN 30 DAYS  
OF WELL COMPLETION AND SENT TO  
THE ILLINOIS DEPARTMENT OF PUBLIC HEALTH  
DIVISION OF ENVIRONMENTAL HEALTH  
525 WEST JEFFERSON STREET  
SPRINGFIELD, ILLINOIS 62761

DIVISION OF  
ENVIRONMENTAL HEALTH

1. Type of Well W
- a. Bored      Hole Diam. 12 in. Depth 51½ ft  
Buried Slab: Yes      No
- b. Driven      Drive Pipe Diam.      in. Depth      ft
- c. Drilled X Finished in Drift X In Rock

d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Well furnishes water for human consumption? Yes      No X
3. Date well drilled April 14, 1989
4. Permanent pump installed? Yes      Date      No X  
Manufacturer      Type       
Location       
Capacity      gpm. Depth of setting      ft.
5. Well top sealed? Yes      No      Type welded to casing
6. Pitless adapter installed? Yes      No X  
Manufacturer      Model No.       
How attached to casing?
7. Well disinfected? Yes X No
8. Pump and equipment disinfected Yes      No

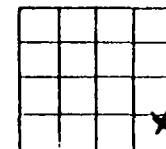
### IMPORTANT NOTICE

This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

PRESS FIRMLY WITH BLACK PEN OR TYPE  
Do Not Use Felt Pen

### GEOLOGICAL AND WATER SURVEYS WELL RECORD

9. Driller      License No. 102-001203
10. Well Site Address
11. Property Owner Robert Eller Well No. 3153
12. Permit No. 139616 Date Issued 2/2/89
13. Location: County Whiteside  
Sec. 6.1b  
Twp. 20N  
Rge. 7E



14. Water from sand at depth 10 ft to 51½ ft

Diam.(in)	Kind and Weight	From (ft)	To (ft)	Show location in section plat
12	steel	+2½	31½	NE SE SE

15. Casing and Liner Pipe
16. Screen: Diam. 12 in, Length 20' in, Slot Size .080
17. Size hole below casing 12 in. 18. Ground Eley.      ft msl.
19. Static level 5 ft below casing top which is 2½ ft above ground level. Pumping level      ft, pumping gpm for 600-800 hours.

20. Earth Materials Passed Through	Depth of Top	Depth of Bottom
Top Soil	4	4
Dirty Sand	6	10
12-25 Slot Sand = 1"	16	26
12-25 Slot Sand w/10% 25-1/8"	5½	31½
10 Slot to 1" w/3-6" Rocks	19	50½
Greenish Gray Clay	XXXXXXX 1	51½

Continue on separate sheet if necessary.

Signed Elton Buck Date 4-26-89

## INSTRUCTIONS TO DRILLERS

White Copy -  
Ill. Dept. of Public Health  
Yellow Copy - Well Contractor  
Blue Copy - Well Owner

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, BUREAU OF ENVIRONMENTAL HEALTH, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62701. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

# ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

## GEOLOGICAL AND WATER SURVEYS WELL RECORD

## 1. Type of Well

- a. Dig ☐ Bored ☐ Hole Diam. 5 in. Depth 170 ft.  
Curb material ☐ Buried Slab: Yes ☐ No ☐  
b. Driven ☐ Drive Pipe Diam. ☐ in. Depth ☐ ft.  
c. Drilled ☒ Finished in Drift ☐ In Rock ☒  
Tubular ☒ Gravel Packed ☐  
d. Grout:

(KIND)	FROM (FT.)	TO (FT.)
puddled	0	97

## 2. Distance to Nearest:

Building 15 Ft. Seepage Tile Field 85  
Cess Pool ☐ Sewer (non Cast iron) 60  
Privy ☐ Sewer (Cast iron) 15  
Septic Tank 75 Barnyard 65  
Leaching Pit ☐ Manure Pile ☐

## 3. Is water from this well to be used for human consumption?

Yes ☒ No ☐

4. Date well completed October 3, 1973

5. Permanent Pump Installed? Yes ☒ No ☐  
Manufacturer Red Jacket Type Submersible  
Capacity 1 1/2 hp gpm. Depth of setting 70 ft.

6. Well Top Sealed? Yes ☐ No ☐ PAT 145 attached to casing

7. Fittless Adaptor Installed? Yes ☒ No ☐ by clamp

8. Well Disinfected? Yes ☒ No ☐

9. Water Sample Submitted? Yes ☐ No ☒

REMARKS: 145 gal PAT pressure tank buried

10. Property owner \_\_\_\_\_ Well No. \_\_\_\_\_

Address \_\_\_\_\_  
Driller S. Dean Albrecht License No. 102-120

11. Permit No. 25943 Date October 11, 1973

12. Water from limerock 13. County Whiteside

at depth 97 to 170 ft. Sec. 2

14. Screen: Dia. ☐ in. Twp. 20N

Length: ☐ ft. Slot ☐ Rge. 6E

Elev. ☐


## 15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	black	0	97

SHOW  
LOCATION IN  
SECTION PLAT

60' S 40' W of R240  
SE SW SE

16. Size Hole below casing: 5 in.

17. Static level 6 ft. below casing top which is 1 1/2 ft. above ground level. Pumping level 19 ft. when pumping at 30 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
clay	0	10
gravel	49	59
clay	27	86
sand & gravel	11	97
limerock	73	170

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED S. Dean Albrecht DATE Nov. 5, 1973

## Appendix G

Henry Hoffman Landfill

Technical Assistance Team Report



BVWST Project 70970.111  
BVWST File C.2

SITE ASSESSMENT REPORT  
FOR  
HOFFMAN LANDFILL  
ROCKFALLS, WHITESIDE COUNTY, ILLINOIS  
TDD: T05-9308-023  
PAN: EIL0809SAA



**ecology and environment, inc.**

International Specialists in the Environment

SITE ASSESSMENT REPORT  
FOR  
HOFFMAN LANDFILL  
ROCKFALLS, WHITESIDE COUNTY, ILLINOIS  
TDD: T05-9308-023  
PAN: EIL0809SAA

NOVEMBER 15, 1993

Prepared by: Raghavender Rao Nagam  
Reviewed by: John Skene  
Approved by: [Signature]

Date: 11/15/1993  
Date: 11-15-93  
Date: 11/15/93

## TABLE OF CONTENTS

<u>Contents</u>	<u>Page</u>
LIST OF FIGURES . . . . .	ii
LIST OF APPENDICES . . . . .	iii
1.0 INTRODUCTION . . . . .	1
2.0 SITE BACKGROUND . . . . .	1
3.0 SITE ACTIVITIES . . . . .	1
4.0 DISCUSSION OF POTENTIAL THREATS . . . . .	3
5.0 U.S. EPA ACTION . . . . .	5
6.0 RECOMMENDATIONS . . . . .	6

## LIST OF FIGURES

<u>Figure</u>	<u>Page</u>
1.0 SITE LOCATION MAP . . . . .	2
2.0 SITE FEATURES MAP . . . . .	4

## LIST OF APPENDICES

<u>Appendix</u>	<u>Page</u>
A PHOTO DOCUMENTATION . . . . .	7
B U.S. EPA LETTER TO PRP's . . . . .	8
C DISPOSAL LETTER FAX . . . . .	9
D PRP'S LETTER OF CORRECTIVE ACTIONS . . . . .	10

## **1.0 INTRODUCTION:**

The Ecology and Environment, Inc. (E & E) Technical Assistance Team (TAT) was tasked by the Emergency and Enforcement Response Branch (EERB) of the United States Environmental Protection Agency (U.S. EPA) on August 24, 1993, under Technical Direction Document T05-9308-023 to conduct a site assessment (SA) of Hoffman Landfill (HL) site and evaluate threats to human health and environment.

The HL site is located in Rock Falls, Whiteside County, Illinois and is legally described as within 1/4 SE of 1/4 SW of 1/4 SE of Section 29, T.21 N, R 7E (Figure 1 - Site Location Map).

## **2.0 SITE BACKGROUND:**

The site was referred to U.S. EPA by the ARCS subcontractor, who at the time of reporting, was conducting monitoring well sampling of Hoffman Landfill. The ARCS subcontractor noticed the tanks and drums near Advanced Asphalt Company located adjacent to the landfill and determined them to be in a position to pose an environmental threat.

## **3.0 SITE ACTIVITIES:**

TAT members R. Nagam, J. Sherrard, and Y. Anderson conducted the site assessment (SA) along with On-Scene Coordinator (OSC) Paul Steadman on August 25, 1993. Henry Hoffman, the property owner of Hoffman Landfill was present on the site, and showed the location of drums and tanks near the eastern border of Hoffman Landfill. This location, which is an open area east of HL area is currently leased to Advanced Asphalt Company (AAC) by Henry Hoffman. AAC is an active facility dealing with the manufacture of Asphalt. Hoffman, upon OSCs request, had given the name of Bradley Bruins, as the contact person for AAC and also volunteered to inform Bruins of U.S. EPA's ongoing site assessment. After calibrating photo ionization detector (PID) and oxygen/explosimeter, the TAT and OSC started site reconnaissance. AAC is bordered on the north and west by Hoffman Landfill, on the south by a pond and agricultural land, and on the east by a dirt road leading to Anixter Road. Hoffman's property, which includes the landfill and AAC area, is fenced and access controlled by a gate on Anixter Road. During this site assessment, Bradley Bruins, Superintendent of AAC came and spoke with OSC Paul Steadman. Several 55-gallon metal drums were observed on AAC leased property. Most of these drums were either empty or contained material in small quantities. A total of seven (7) horizontal and two (2) vertical tanks were observed in this area. All the seven (7) horizontal tanks appeared to be non-operational and in a moderate to poor condition. The tank on



the northwest side of AAC (Tank#1) contained black asphalt-like material at its bottom. During this SA, TAT labelled all the twenty one (21) drums found on the location. Seven (7) of these drums contained small quantities of material while the rest of the fourteen (14) drums were observed to be empty. One of the seven drums had a label of hydraulic oil, while a second drum had a label of diesel oil. Bruins, per OSCs request, had agreed to reclaim these two drums. Bruins indicated that the two vertical tanks (mentioned previously) belonged to AAC. He had also informed the OSC that the horizontal tanks at this location were present from last 20 years. In close proximity to the two vertical tanks, twelve (12) black, 55-gallon metal drums and three (3) 30-gallon metal drums were present (Figure 2 - Site Features Map). These were identified by Bruins as belonging to AAC and provided the OSC with material safety data sheets (MSDS) of the drum contents. The MSDS information indicated that the drum material contained trichloroethane, perchloroethylene, and other solvents. PID reading on Tank#1 indicated 18 parts per million (ppm) of organic atmosphere. Another horizontal tank appeared empty but indicated a PID reading of 5 ppm.

After this site reconnaissance, TAT made preparations for sampling the drums. Most of the seven drums identified earlier appeared to contain small quantities of rain water mixed with oily material. Due to the nature of the drum contents and their volume, no samples were taken during this SA. Tank#1 sample could not be collected because of the small amount of material at its bottom.

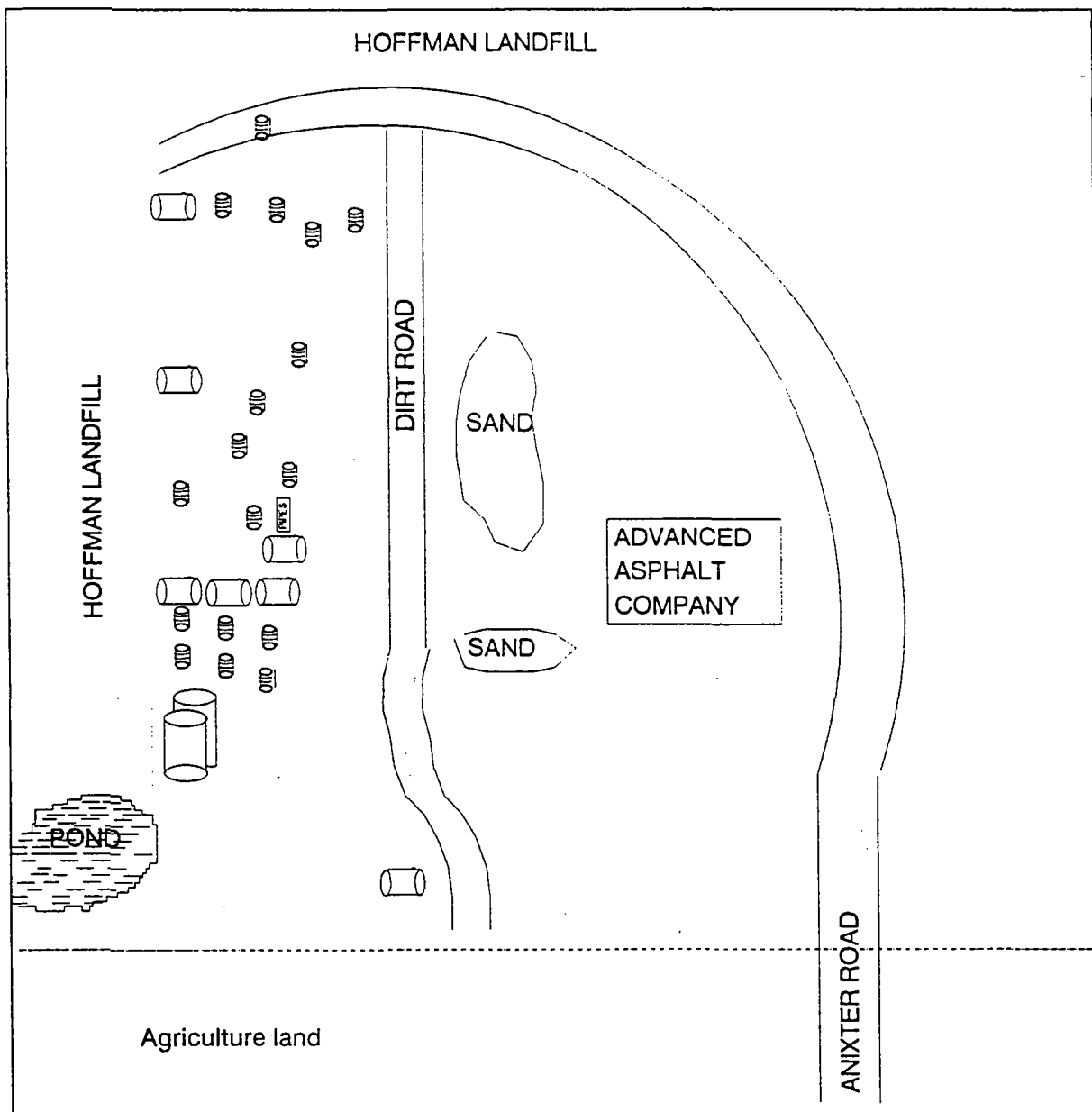
Based on drum and tank locations, and the similarity of drum and tank contents to AACs raw materials and product, OSC had requested Bruins to take actions to abate threats posed by the deteriorating tank and drums within ten (10) days. Bruins had indicated that they will empty Tank#1 and the seven drums and send them to a fuels blender.

During this SA, TAT photographed the features of the site, which are included in Appendix A. All potentially contaminated equipment was bagged and taken with TAT for proper disposal. No samples were collected during this site assessment. After these site activities, TAT demobilized from the site.

#### **4.0 DISCUSSION OF POTENTIAL THREATS:**

MSDS for the tar binder indicates that it contains hazardous chemicals like trichloroethane, perchloroethylene, and other solvents. Tanks and drums containing tar binder and other material stored in an improper manner posed a potential threat to public health and the environment if such materials





## LEGEND



Drum



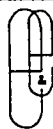
Horizontal tank



Vertical tank



Landfill boundary  
Property fence



ecology and environment, inc.  
Technical Assistance Team  
Region V

111 W. Jackson Blvd., Chicago, Illinois 60604

TITLE <b>Site Features Map</b>		FIGURE # <b>2</b>
SITE <b>Hoffman Landfill</b>		SCALE <b>Not to scale</b>
CITY <b>Rock Falls</b>	STATE <b>IL</b>	PAN <b>EIL0809SAA</b>
		DATE <b>1993</b>

were released to the ground and the environment.

#### 4.1 THREAT TO HUMAN HEALTH AND ENVIRONMENT:

Conditions at Hoffman Landfill site that warranted an appropriate action as set forth in paragraph (b) (2) of section 300.415 of the National Contingency Plan (NCP) are:

**(i) Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances or pollutants or contaminants:**

Drums containing trichloroethane, perchloroethylene, and other hazardous solvents were stored improperly and in a manner that posed exposure threats to people working on the site.

**(ii) Weather conditions that may cause hazardous substances to migrate or be released.**

Some of the drums and tanks were in poor and deteriorating condition. These tanks and drums which were stored outside without any protection from inclement weather posed potential migration threats under severe weather conditions.

#### **5.0 U.S. EPA ACTION**

Paragraph (a) (2) of section 300.415 of the National Contingency Plan (NCP) as applicable to Hoffman Landfill is:

**"Where the responsible parties are known, an effort initially shall be made, to the extent practicable, to determine whether they can and will perform the necessary removal action promptly and properly"**

Based on drum and tank locations, and the similarity of drum and tank contents to AACs raw materials and product, OSC had verbally notified Bruins during the SA to abate threats posed by the deteriorating tank and drums within ten (10) days. Bruins had indicated that they will empty Tank#1 and the seven drums and send them to a fuels blender.

On August 27, 1993, OSC Steadman mailed letters to Bradley Bruins, Superintendent of AAC, and Henry Hoffman, property lessor to AAC, reiterating their agreement during the SA, to take appropriate steps within ten (10) days to ensure that the waste materials are removed from the site and properly disposed of (Appendix B). OSC in this letter had also suggested that the twelve (12) black 55-gallon "tar binder" drums of AAC be moved to a location where they will not create a serious hazard to the environment.

On September 30, 1993, OSC Steadman received a fax of the Safety Kleen's receipt sent by Bruins. This receipt indicated the pick-up of 1,000 gallons of used oil from AAC by Safety Kleen Corporation.

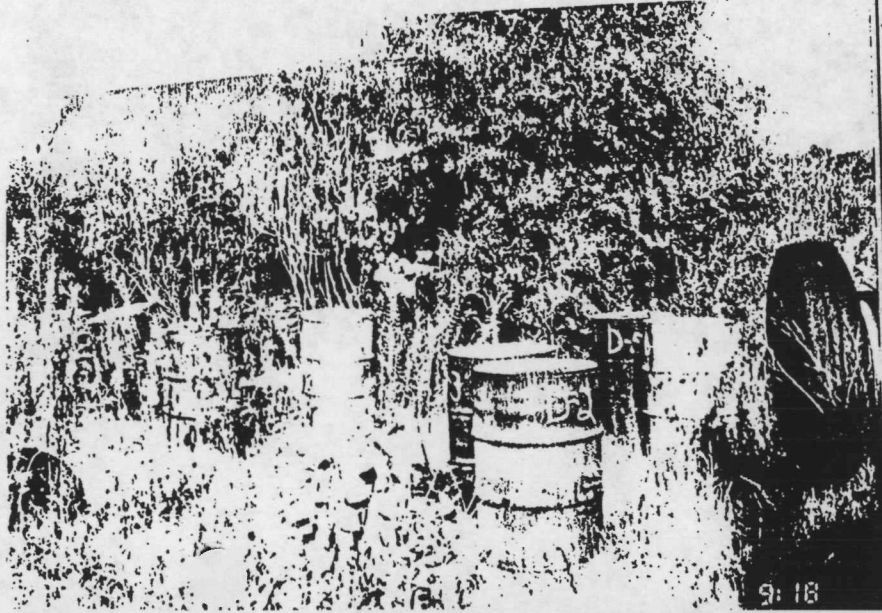
On October 19, 1993 OSC Steadman received a letter from Bruins of Advanced Asphalt Company, and three (3) photographs of the site's current conditions. The letter itemizes and attests to efforts made by the potential responsible party (PRP) to improve the sites appearance and conditions.

#### **6.0 RECOMMENDATIONS:**

Actions taken by Advanced Asphalt Company, pursuant to OSC Steadman's suggestion, have effectively mitigated potential threats due to hazardous chemicals present in drums and tanks.

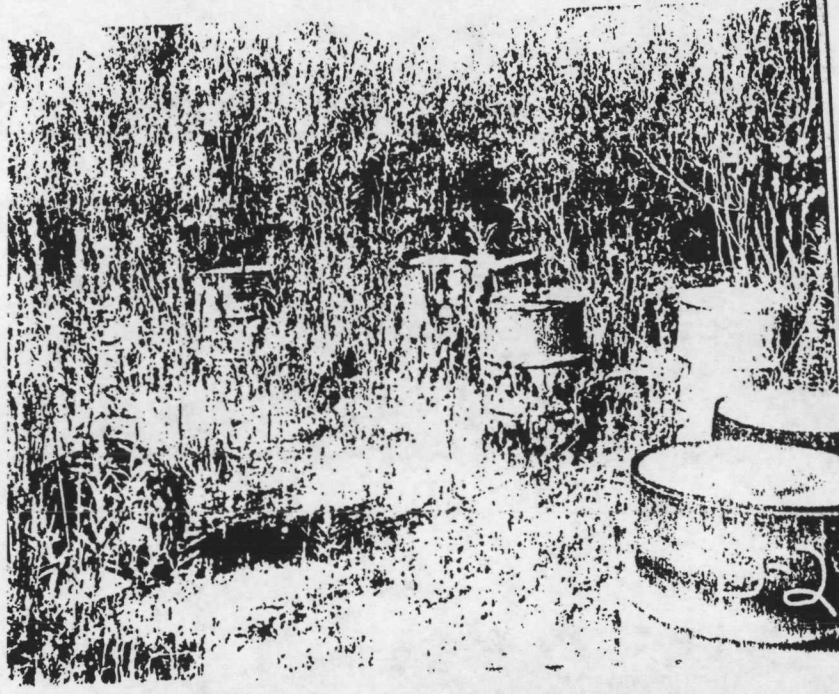
**APPENDIX A PHOTO DOCUMENTATION**



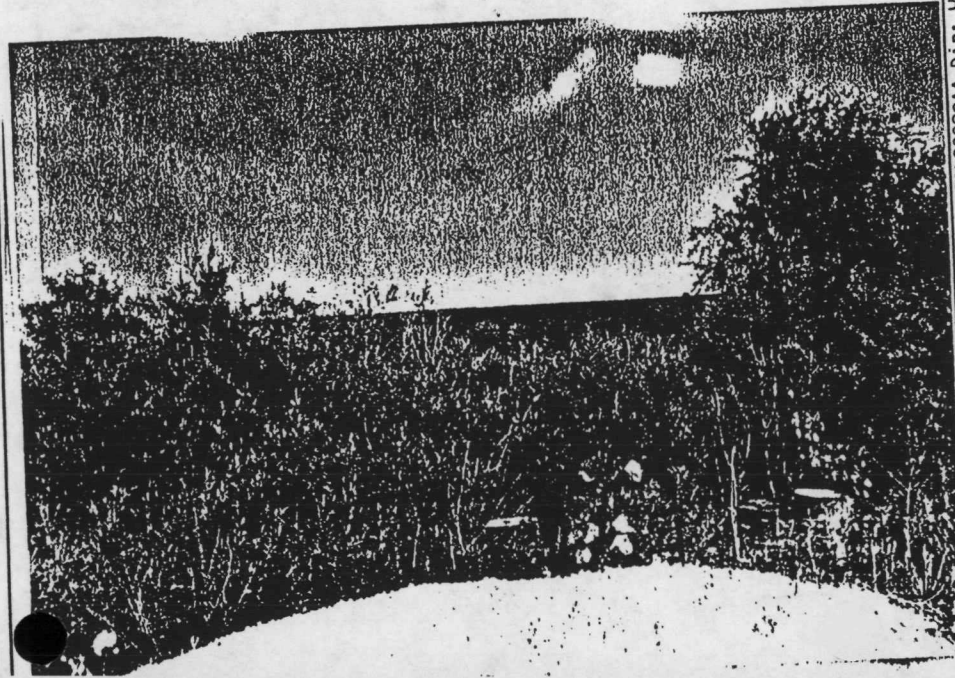


9:18

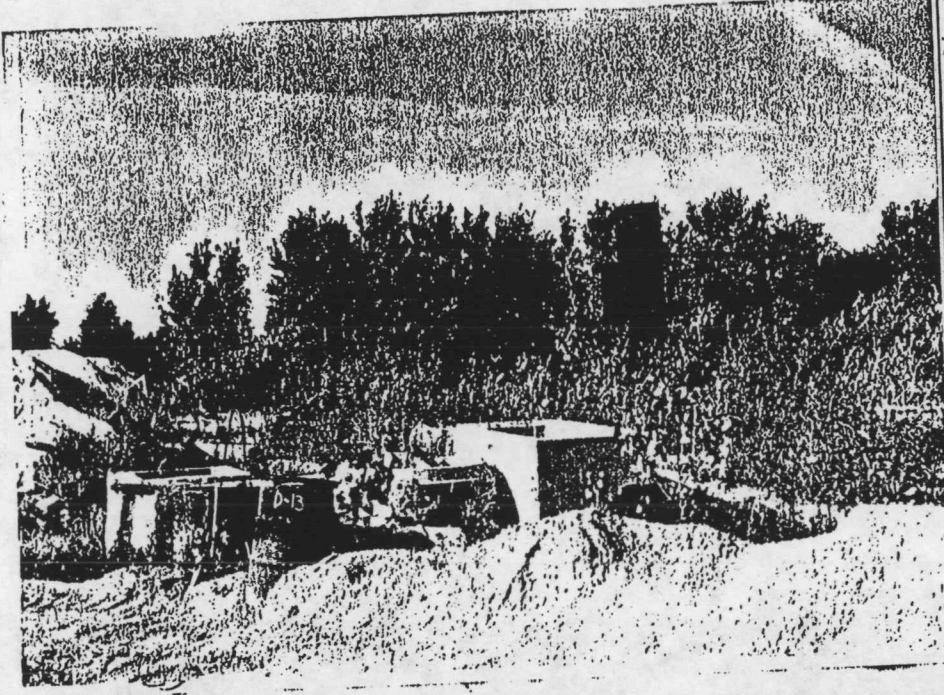
Site: Hoffman Landfill TDD:T05-9308-023 PAN:EIL0809SAA Dir: W  
Date: 8/25/93 Time: 0918 Weather: Cloudy, 70°F Photo by: J. Sherrard  
Comments: View of several 55-gallon metal drums found adjacent to Hoffman Landfill near Advanced Asphalt Company



Site: Hoffman Landfill TDD:T05-9308-023 PAN:EIL0809SAA Dir: SW  
Date: 8/25/93 Time: 0919 Weather: Cloudy, 70°F Photo by: J. Sherrard  
Comments: View of 55-gallon drums and the metal tank T-1



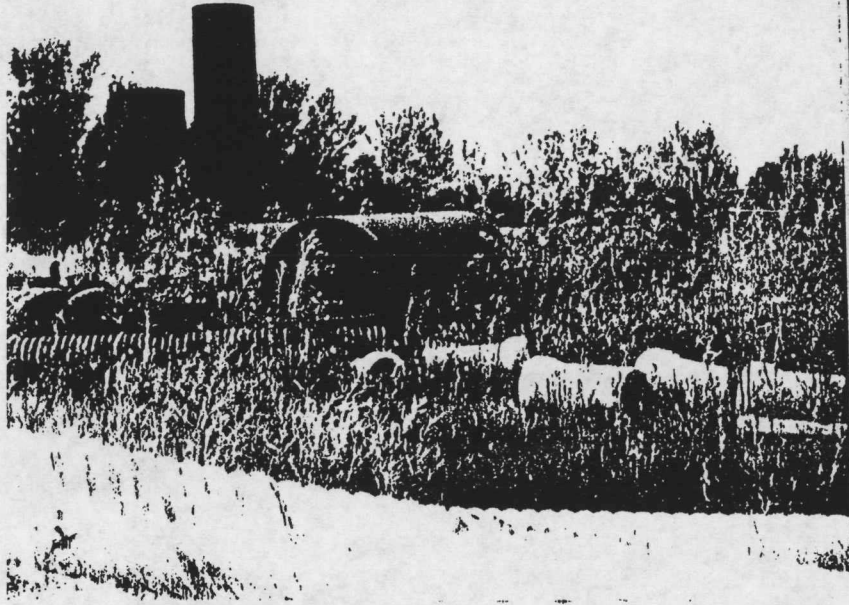
Site: Hoffman Landfill TDD:T05-9308-023 PAN:EIL0809SAA Dir: W  
Date: 8/25/93 Time: 0920 Weather: Cloudy, 70°F Photo by: J. Sherrard  
Comments: Photo of tank T-1 surrounded by bushes. Tank T-1 had a large volume of black tar like material.



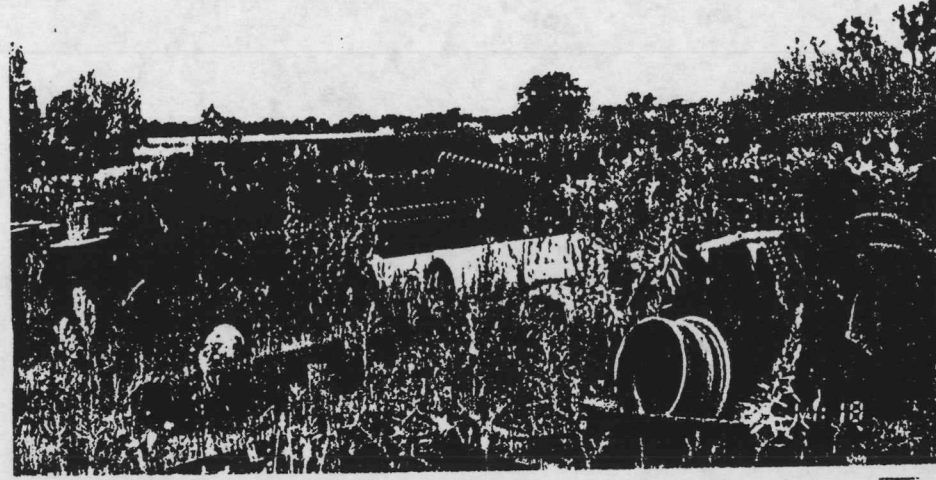
Site: Hoffman Landfill TDD:T05-9308-023 PAN:EIL0809SAA Dir: SW  
Date: 8/25/93 Time: 0922 Weather: Cloudy, 70°F Photo by: J. Sherrard  
Comments: View of two vertical metal tanks that are used by Hoffman Landfill Company for the main storage of landfill



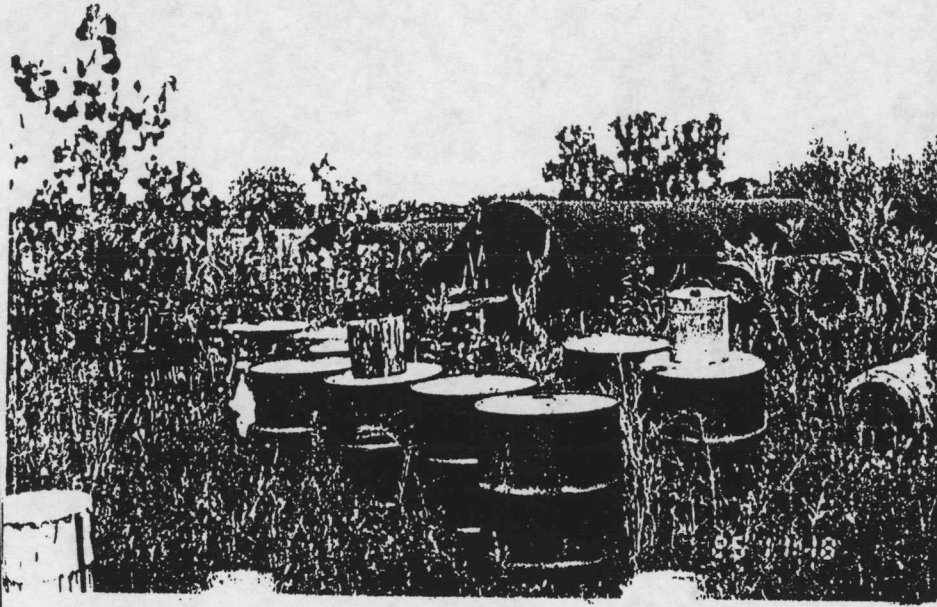
Site: Hoffman Landfill TDD: T05-9308-023 PAN: EIL0809SAA Dir: S  
 Date: 8/25/93 Time: 1117 Weather: Cloudy, 70° F Photo by: J. Sherrard  
 Comments: View of some empty 55-gallon drums located near Advanced Asphalt Company.



Site: Hoffman Landfill TDD: T05-9308-023 PAN: EIL0809SAA Dir: S  
 Date: 8/25/93 Time: 1117 Weather: Cloudy, 70° F Photo by: J. Sherrard  
 Comments: Photo of empty horizontal tanks and several pipes located near the two vertical tanks of Advanced Asphalt Co.

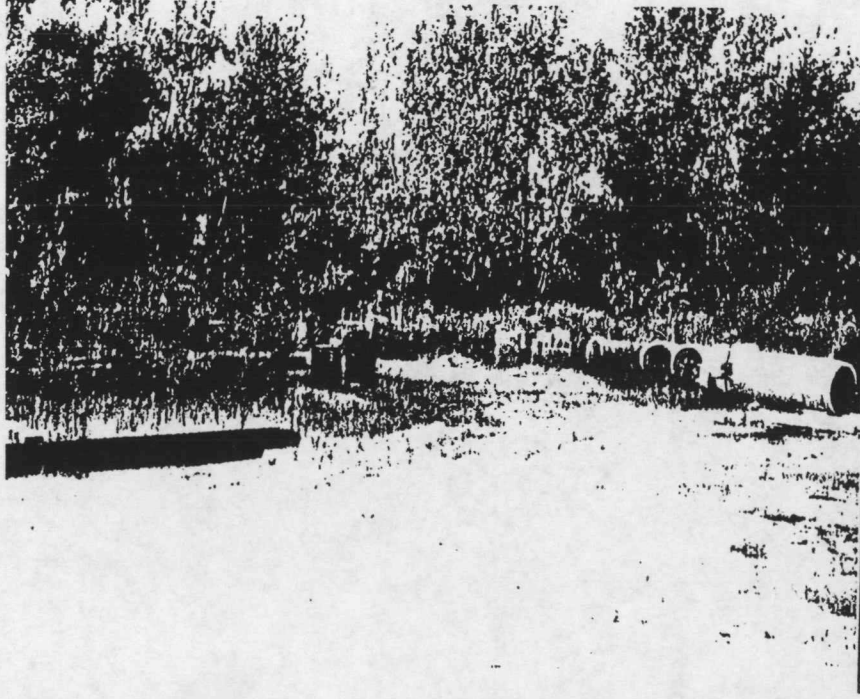


Site: Hoffman Landfill TDD: T05-9308-023 PAN: EIL0809SAA Dir: W  
 Date: 8/25/93 Time: 1118 Weather: Cloudy, 70° F Photo by: J. Sherrard  
 Comments: A closer view of four (4) horizontal tanks, several pipes, and tires located on the east side of Hoffman Landfill.

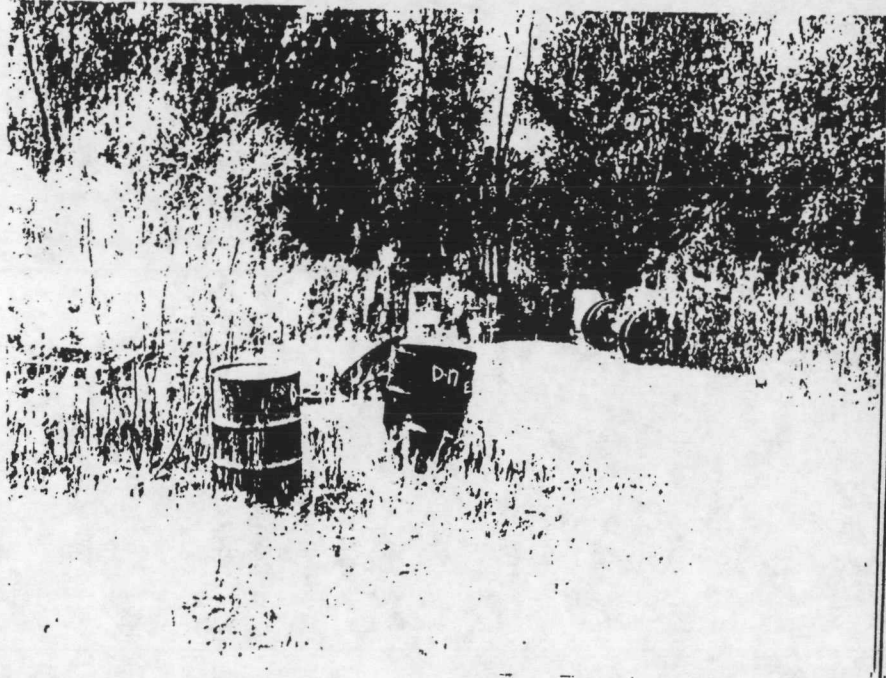


Site: Hoffman Landfill TDD: T05-9308-023 PAN: EIL0809SAA Dir: W  
 Date: 8/25/93 Time: 1118 Weather: Cloudy, 70° F Photo by: J. Sherrard  
 Comments: Photo showing twelve (12) black 55-gallon metal drums that appeared to have asphalt in them.

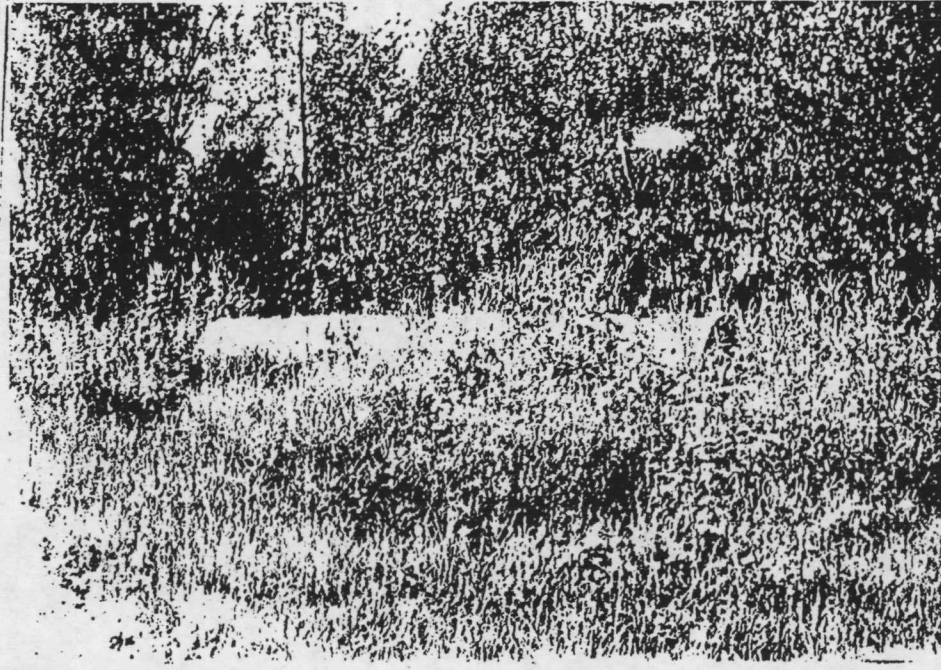




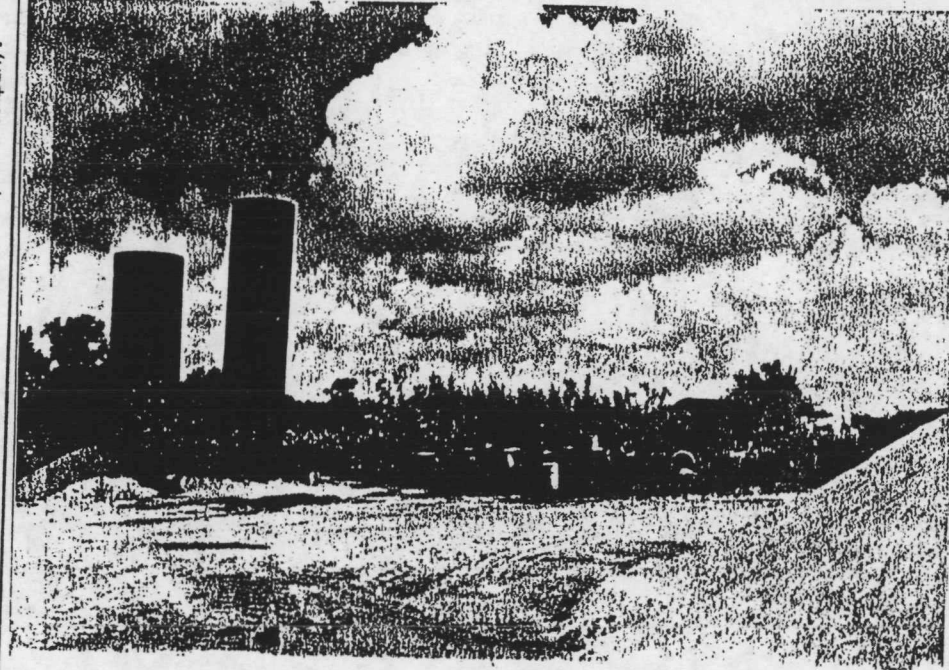
Site: Hoffman Landfill TDD:105-9308-023 PAN:EIL0809SAA Dir: S  
Date: 8/25/93 Time: 1118 Weather: Cloudy, 70°F Photo by: J. Sherrard  
Comments: Photo of some more empty 55-gallon drums located south of vertical tanks.



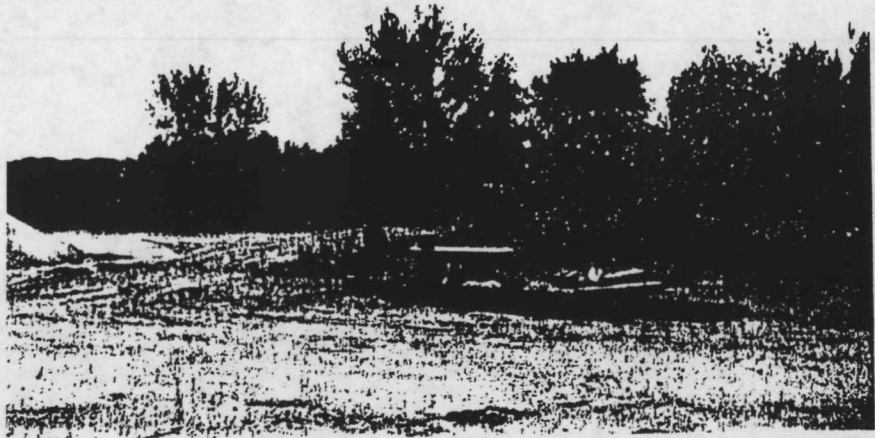
Site: Hoffman Landfill TDD:105-9308-023 PAN:EIL0809SAA Dir: S  
Date: 8/25/93 Time: 1119 Weather: Cloudy, 70°F Photo by: J. Sherrard  
Comments: View of two orange/yellow metal 55-gallon drums labelled RC-70, that belong to Advanced Asphalt Company.



Site: Hoffman Landfill TDD:105-9308-023 PAN:EIL0809SAA Dir: SE  
Date: 8/25/93 Time: 1119 Weather: Cloudy, 70°F Photo by: J. Sherrard  
Comments: Photo of an empty horizontal tank located in the bushes of Advanced Asphalt Company.

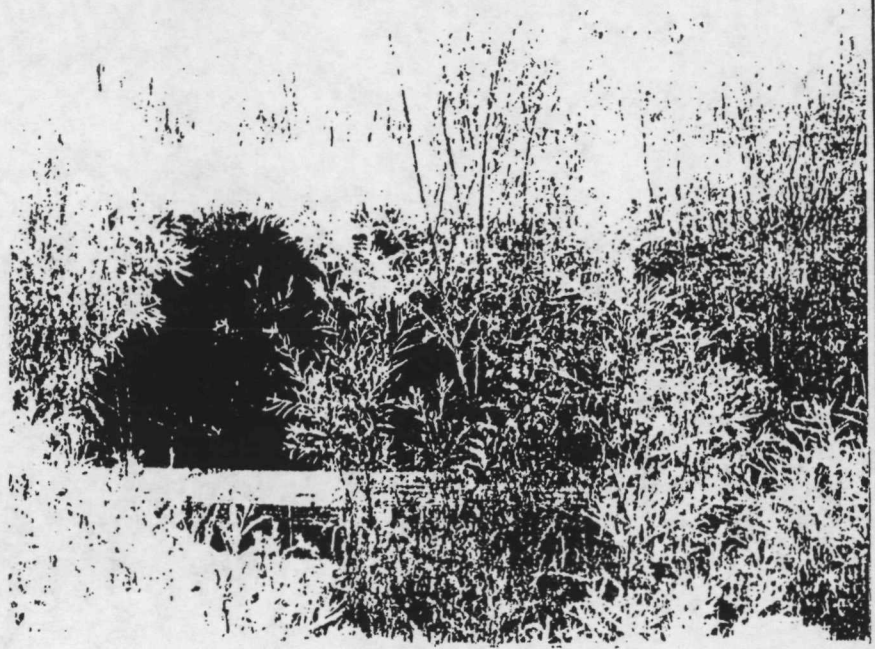


Site: Hoffman Landfill TDD:105-9308-023 PAN:EIL0809SAA Dir: SE  
Date: 8/25/93 Time: 1119 Weather: Cloudy, 70°F Photo by: J. Sherrard  
Comments: A perspective of tanks and drums located outside the eastern boundary of Hoffman Landfill.



Site: Hoffman Landfill TDD: T05-9308-023 PAN: EIL0809SAA Dir: S  
 Date: 8/25/93 Time: 1119 Weather: Cloudy, 70°F Photo by: J. Sherrard  
 Comments: Sand other material located on Advanced Asphalt Company premises, that is used for asphalt manufacture.

(21)



Site: Hoffman Landfill TDD: T05-9308-023 PAN: EIL0809SAA Dir: E  
 Date: 8/25/93 Time: 1120 Weather: Cloudy, 70°F Photo by: J. Sherrard  
 Comments: View of an horizontal tank located in the bushes of Advanced Asphalt Company premises.

(11)



**APPENDIX B U.S. EPA LETTER TO PRP's**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
77 WEST JACKSON BOULEVARD  
CHICAGO, IL 60604-3590

**AUG 27 1993**

REPLY TO THE ATTENTION OF.

**HSE-5J**

Mr. Brad Bruns, Superintendent  
Advanced Asphalt Company  
P.O. Box 234  
Princeton, Illinois 61356

**AND**

Mr. Henry Hoffman, Property Lessor  
709 Hoffman Drive  
Rock Falls, Illinois 61701

Dear Mr. Bruns and Mr. Hoffman:

RE: Disposition of Potentially Hazardous Waste Materials Stored at  
the Henry Hoffman Landfill/Associated Asphalt Company Property  
in Rock Falls, Whiteside County, Illinois

CERCLIS Site ID No.

During the conduct of this Agency's removal site assessment of the referenced property off Anixter Road in Rock Falls (legally described as within the SE 1/4 of Section 29, T21N, R78E) on Wednesday, August 25, 1993, it was determined that an accumulation of potentially hazardous substances containing trichloroethane, perchloroethylene and other solvents have been improperly stored on this site. Such improper storage can result in an imminent threat to the public health and the environment if such materials are released to the ground and surrounding area.

I met with both of you during this assessment and it was agreed that you would take appropriate steps within ten (10) days to ensure that these waste materials are removed from the site and properly disposed.

This refers especially to the contents of the tank marked as T-1, and the drums marked D-1, D-4, D-5, D-6, D-7, D-10 and D-11. As well, the off spec material referred to as "tar binder" in the 12 55-gallon capacity drums would be moved to a location where they will not create a serious hazard to the environment from a potential release or be confused with hazardous waste materials.

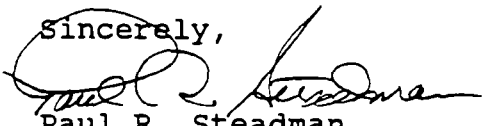
When the above steps have been taken, please notify this Agency in writing at the above address identifying the disposal facility (fuel recycler or fuel blender ?), the waste materials that were taken and the location.



Printed on Recycled Paper

We appreciate your cooperation in this matter. If you have any questions, please call me at telephone number 312/353-7615.

Sincerely,



Paul R. Steadman,  
On-Scene Coordinator  
Emergency and Enforcement Response Branch

cc: Office of Regional Counsel - EPA Reg. V  
R.C. Karl, EERB Chief, Reg. V  
M.E. Gustafson, Response Section III Chief  
A. Altur, Illinois Site Assessments Section

**APPENDIX C   DISPOSAL LETTER FAX**



Box 234

PH: (815) 872-9911



August 30, 1993

U.S. Environmental Protection Agency  
Region V, Emergency Response Branch  
77 W. Jackson Blvd. HSE-5J  
Chicago, Illinois 60604

ATTENTION: Mr. Paul R. Steadman, M.P.H.

Dear Paul,

You will find enclosed a copy of the receipt from Safety-Kleen Corp. for used oil picked up at our Rock Falls, Illinois asphalt plant facility.

Once again, I would like to thank you for your help in this matter.

Very truly yours,

ADVANCED ASPHALT CO.

Bradley J. Bruins

BJB:lf

encl.



**APPENDIX D PRP'S LETTER OF CORRECTIVE ACTIONS**



October 19, 1993

U.S. Environmental Protection Agency  
Region V, Emergency Response Branch  
77 W. Jackson Blvd. HSE-5J  
Chicago, Illinois 60604

ATTENTION: Mr. Paul R. Steadman, M.P.H.

Dear Paul,

Since your visit to our plant site in late August, we have taken the following precautions as per your advice.

1. All tanks and drums which contained fuel oil were pumped out by Safety Kleen Corp. of Elgin, Illinois.
2. All tanks and drums with the exception of one tank have been removed from our property and sold as scrap.
3. The drums containing an asphalt anti-strip additive have been grouped together and covered with a tarp. (See enclosed pictures.)

Should you need any further information, please contact me.

Very truly yours,

ADVANCED ASPHALT CO.

*Bradley J. Bruins*

Bradley J. Bruins

BJB:lf